



BAHONA COLLEGE
বাহনা মহাবিদ্যালয়
Affiliated to Dibrugarh University

**Supporting Documents for
NAAC Self Study Report (SSR)
(3rd Cycle)**

Period: 2016-2021

Criterion 2	Key Indicator: 2.2
Teaching- Learning and Evaluation	Catering to Student Diversity
Metric Number: 2.2.1	The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

**Prepared and submitted by
Bahona College**





BAHONA COLLEGE
বাহনা মহাবিদ্যালয়
 Affiliated to Dibrugarh University

Metric No:	Heading
2.2.1	The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

CLASS ROUTINE -2021, BAHONA COLLEGE:: BAHONA

Monday

REVISED CLASS ROUTINE

CLASS	9.15 AM-10.15 A M	10.15A.M-11.15A.M	11.15A.M-12.15P.M	12.15P.M-1.15P.M	1.15P.M-2.15P.M	2.15P.M-3.15P.M	3.15P.M-4.15 P.M
H.S(A) 1 st year (Room No-9)	Sociology/Stats	Economics	Pol.Sc	Education	Assamese	Mathematics	Tutorial
H.S(Sc) 1 st year (Room No-4)	Stats/PracticalZOO(GR.A)+BOT(GR.B)		Chemistry	Physics	Botany/Comp Sc	Mathematics	
H.S(A) 2 nd year (Room No-22)	English	Sociology	History/Mathematic*	Pol. Sc/ Stats-	Education	Assamese/Alt Eng	Tutorial
H.S(Sc) 2 nd year (Room No-6)	Physics	English	Mathematics	Zoo/Comp Sc/Stats	Assamese/Alt Eng	Practical PHY(GR.A)+CHEM(GR.B)	
B.A. 1 st Sem	AEC (1)- NB(English)	Eng(M)-3, His(M)-NB Eco(M)- 5, Pol.Sc.-23 Edu(M)-1 ,As-8	As(M)-D; Eco(M)-D Pol.Sc.(M)-08 Eng(M)-D; Edu(M)-D Hist(M)-NB	As(GE)-23 Alt.Eng(G)-1	Pol.Sc.(GE)-1 Eco(GE)-3 Hist(GE)- NB Stat(GE)-5	ENGLISH- (GD/Seminar Pol.Sc.- Tutorial	
B.Sc 1 st Sem	All MAJOR(Dept.)	CHEM(M)-D CHEM (G)-C1 Comp.Sc.(G)-	Phy(M)-D Phy (G)-C1 Zoo(G)-D Bot(G)-D	ZOO(M)- Bot(M)- Math(M)- Math(G)- C1	Stat(M)- D Pract. Bot(M) Chem(M) Phy(M+G)	Eco(G)-3;Math(M)- Zoo(M)- Pract,Math(M,Gr.)	Math(M,Pract) BOTANY- (GD/Seminar,Project) ZOO-Tutorial
B.A. 3 rd Sem	ALL MAJOR ENG-5; ECO-D EDU-01 ASM-D POL.S-23; HIST-D	ENG(C)-81	EDN(C) - 23	ALL MAJOR ENG-D ; ECO-D EDU-24 ASM- D POL.SC.-D; HIST-D	COSKO-23(TH) Commu.Eng.-	Pol.Sc (C) -23	Pol.Sc.(GD/Seminar) Education- Tutorial
B.Sc. 3 rd Sem	All Major (Dept.)	CHEM(C) -C2 Comp Sc.-D	Math(M) - D Stats(M) -D Practical Phy (M),Chem(M) Practical Bot(C)	PHY(M)-D ;PHY(C)- C1; ZOO(M)-D ; Z OO(C)-D	CHEM(M)-D MATH(M) -D STATS(M)-D BOT(M)-D BOT(C)	Chemistry- (GD/Seminar) Physics -Tutorial	
B.A. 5 th Sem	ECO(C)- 3 HIST(C)- 8	ALL MAJOR ENG-D ; ECO-D EDU-24; ASM-D POL.SC - D; HIST-D	ALL MAJOR ENG-3; ECO-5 EDU-24 ; ASM -1 POL.S-D ; HIST-D EDU(C)- 81	SKILL BASED-3	ALL MAJOR ENG-D ; ECO-D EDU-24 ; ASM-D POL.SC-D; HIST-D POL SC(C)-8	ALL MAJOR ENG-D ; ECO-D EDU-24 ; ASM-D POL.SC-D; HIST-D	Assamese (GD/Seminar) Economics -Tutorial
B.Sc 5 th Sem	MATH(M) STAT(M) ALL MAJOR PRACTICAL		ALL MAJOR	ALL MAJOR	ALL MAJOR	Zoology -(GD/Sem.) Chemistry-Tutorial Math(M)-	

Time-Table of Dept of Assamese

(Dr. P.K. Dutta)
 Principal,
 Bahona College



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BAHONA COLLEGE

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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

DEPARTMENT OF BOTANY TIME TABLE CUM CLASS ALLOTMENT

DAY	9.15 AM	10.15 AM	11.15 AM	12.15 PM	1.15 PM	2.15 PM	3.15 PM*
MONDAY	XI (T)-DT 1 ST Maj (T)-PB 3 RD Maj (T)-RAL 5 TH Maj (P)-SD →	1 ST Maj (T)-BD 3 RD Maj (T)-PB	1 ST Gen (T)-SD 3 RD Maj (P)-PB → 5 TH Maj (T)-RAL XI (P)-DT	5 TH Maj (T)-BD	3 RD Gen (T)-SD 5 TH Maj (T)-DT 1 ST Maj (P)-BD/RAL →		SEMINAR / GD MENTORING / TUTORIAL/ REMEDIAL/ EXTRA CLASS
TUESDAY	3 RD Maj (T)-BD 5 TH Maj (P)-DT →	1 ST Gen (P)-BD → 3 RD Maj (T)-SD 5 TH Maj (P)-RAL →	3 RD Gen (T)-DT	XI (P)-DT → 1 ST Maj (T)-PB 3 RD Maj (P)-SD →	1 ST Maj (T)-RAL 5 TH Maj (T)-BD	5 TH Maj (T)-PB	-DO-
WEDNESDAY	XII (T)-SD 1 ST Maj (T)-RAL 3 RD Maj (P)-BD →	5 TH Maj (T)-PB	1 ST Maj (T)-SD 3 RD Maj (T)-DT 5 TH Maj (T)-RAL	3 RD Gen (T)-BD 5 TH Maj (P)-SD →	1 ST Gen (T)-DT 3 RD Maj (T)-PB	1 ST Maj (P)-PB/RAL → 5 TH Maj (T)-BD	-DO-
THURSDAY	1 ST Gen (T)-PB 3 RD Maj (T)-BD 5 TH Maj (T)-DT	XI (T)-RAL 1 ST Maj (T)-SD 3 RD Gen (P)-BD → 5 TH Maj (P)-DT →		1 ST Maj (P)-RAL → 3 RD Maj (T)-SD 5 TH Maj (T)-PB	XII (T)-DT 3 RD Maj (P)-SD → 5 TH Maj (T)-SD	1 ST Maj (T)-RAL	-DO-
FRIDAY	1 ST Maj (T)-PB 3 RD Maj (T)-RAL 5 TH Maj (P)-BD →	1 ST Maj (T)-DT 3 RD Maj (T)-SD	3 RD Gen (P)-DT → 5 TH Maj (T)-BD	5 TH Maj (T)-PB	1 ST Gen (P)-RAL → SECI-DT/BD 5 TH Maj (T)-SD	XII Gr. (P)-SD → 3 RD Maj (T)-PB	-DO-
SATURDAY	XI EVS-BD 1 ST Maj (T)-DT 3 RD Maj (P)-RAL → 5 TH Maj (T)-PB	XI (T)-BD 1 ST Gen (T)-RAL 5 TH Maj (T)-DT	XII (T)-RAL/BD 1 ST Maj (T)-PB 3 RD Gen (T)-RAL 5 TH Maj (T)-SD	1 ST Maj (P)-BD → 3 RD Maj (T)-PB 5 TH Maj (P)-DT →	3 RD Maj (T)-RAL		-DO-

* As per faculty/student convenience and academic calendar of department.

[Signature]
Head of the Department
Department of Botany
Bahona College, Jorhat

Time-Table of Dept of Botany

[Signature]
(Dr. P.K. Dutta)
Principal
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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

Daily Routine 2021
Department of Education

DAYS	9-15-10-15	10-15-11-15	11-15-12-15	12-15-1-15	1-15-2-15	2-15-3-15	3-15-4-15
MONDAY	3 rd SEM (H) AB 5 th SEM(H)	1 st SEM (H) (H) (H) 5 th SEM(H) (H)	BA 1 st SEM (GE) (H) 3 rd SEM(H) IL 5 th SEM (H) (H) AB	HS 1 Year -09-11 5 th SEM(H) LIBRARY 3 rd SEM(GE) (H)	HS II Year (IL) BA 1 st SEM (H) (H) 3 rd SEM (H) LIBRARY 5 th SEM(H) (H)	3 rd SEMESTER (A) (H) MENTORING 1 st SEMESTER REMEDIAL/TUTORIAL (IL) 5 th SEMESTER REMEDIAL/TUTORIAL (H)	
TUESDAY	1 st SEM (H) (IL) 3 rd SEM (H) (H) (H)	1 st SEM (H) LIBRARY 3 rd SEM (H) (H) 5 th SEM(H) AB	3 rd SEM GE-01-11 5 th SEM(H) (H)	1 st SEM (GE)-79-11 3 rd SEM (H) LIBRARY 5 th SEM(H) (H)	HS 1 Year-09-11 BI ¹ SEM (H)-24-11 5 th SEM(H) LIBRARY	3 rd SEM (H)-84-PR (H) 5 th SEM (H) (IL) SEMINAR GD	
WEDNESDAY	BI ¹ SEM (H) -24-11 5 th SEM(H) (H)	HS 1 Year-09-11 3 rd SEM(H) (H) 24-11 5 th SEM(H) 84-11	BI ¹ SEM (H) 01-11 3 rd SEM(H) (H) (H) 5 th SEM(H) (H) (H)	BI ¹ SEM (H) (H) (H) 3 rd SEM(GE)-79-11 5 th SEM(H) LIBRARY	3 rd SEM-SEC-11-24 5 th SEM(H) (H) (H)	BI ¹ SEM (H) - REMEDIAL (H) 3 rd SEM (H) (H) (H) (H) AB	
THURSDAY	BA 1 st SEM (GE)-08-11 3 rd SEM(H) (H)	3 rd SEM(GE)-23-11 5 th SEM(H) 84-11	HS 1 Year-09-11 BI ¹ SEM (H) -24-11 5 th SEM(H) 84-11 3 rd SEM(H) LIBRARY	HS II Year-11-22 3 rd SEM(H) (H) 5 th SEM(H)-84-11	BI ¹ SEM (H)-05-11 3 rd SEM(H) (H) (H) (H) 5 th SEM(H) (H) (H)	BI ¹ SEM (H) - MENTORING (H) 5 th SEM(H) (H) (H)	
FRIDAY	BI ¹ SEM (H) -24-11 5 th SEM(H) (H)	1 SEM(H) LIBRARY 3 rd SEM(H)-11-24 5 th SEM(H)-84-11	BI ¹ SEM -23 (A) (H) 3 rd SEM(SEC)-11 5 th SEM(H) 84-11	BI ¹ SEM (GE) (H) (H) -79 3SEM(H) (H) (H)	BI ¹ SEM (H) -REMEDIAL (H) 3 rd SEM(H)-24-PR-11 5 th SEM(H) (H)	HS II-22 (H) 3 rd SEM(H) (H) (H) (H) (H)	
SATURDAY	HS II-22-11 BI ¹ SEM (H) (LIBRARY) 5 th SEM(H) (H)	BI ¹ SEM (H) -11 5SEM(H)-84-11	BI ¹ SEM (H)-24-11 3 rd SEM(H) (H)	5 th SEM (H)-84-11 BI ¹ SEM REMEDIAL (H)	BI ¹ SEM (H) -11 SEMINAR/GROUP DISCUSSION 3 rd SEM(H) (H) (H) 5 th SEM(H) 84-11	3 rd SEM(H)-GD (H) 5SEM(H)-11	

HEAD
DEPT OF EDUCATION
BAHONA COLLEGE
J. Barik (HOD)

Time-Table of Dept of Education

(Dr. P.K. Dutta)
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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

Daily Routine, Even Semester, 2018 - 19, Department of Economics, Bahona College

Days	9 : 15	10 : 15	11:15	12:15	01 :15	2 :15	3:15
Monday	4 th Sem(M) MS 08 6 th Sem (C) BB 42	2 nd Sem (M) RA 08 6 th Sem (M) MS 41	6 th Sem (M) RA 08	4 th Sem (M) RR 08 6 th Sem (M) Mentoring	6 th Sem (M) BB 08 2 nd Sem (M) Mentoring	2 nd Sem (C) BB 03 6 th Sem (M) RR 08	6 th Sem (M) Seminar/GD 2 nd Sem G/D MS
Tuesday		4 th Sem (M) RR 08 6 th Sem (C) MS 04	2 nd Sem (M) BB 08 6 th Sem (M) 42 RA	4 th Sem (M) RA 08 6 th Sem (M) 03RR	4 th Sem (C) 06 RR 6 th Sem (M) 08 BB	6 th Sem (M) 08 MS EVS, 4 th Sem RA 10	4 th Sem (M) Seminar/GD/ Remedial BB
Wednesday	4 th Sem (M) BB 08	2 nd Sem (M) RR 08 6 th Sem (M) MS 06	4 th Sem (M) RA 08 6 th Sem (M) BB 06	6 th Sem (C) MS 42	6 th Sem (M) 08 RA 2 nd Sem (M) Tutorial	2 nd Sem (C) BB 08 4 th Sem (C) RA 06 6 th Sem (M) 08 RR	6 th Sem (M) Seminar/GD/ Remedial MS 2 nd Sem (M) RA
Thursday	6 th Sem (M) BB 08	2 nd Sem (C) RA 41 6 th Sem (M) RR 01 4 th Sem (M) MS 08	6 th Sem (C) 01 RA 2 nd Sem (M) BB 08	6 th Sem (M) MS dept. 4 th Sem (M) RR 08	6 th Sem (M) RA 08 4 th Sem (M) Tutorial	6 th Sem (M) Seminar/GD 2 nd Sem G/D MS	4 th Sem Seminar/GD BB/ Remedial 6 th Sem (M) Mentoring
Friday	4 th Sem (M) BB 08 6 th Sem (C) RR 03	2 nd Sem (M) RA 08 6 th Sem (M) dept. MS	6 th Sem (M) BB 08	4 th Sem (M) MS 08 6 th Sem (M) RA 22	6 th Sem (M) Tutorial	4 th Sem (C) MS 01 6 th Sem (M) RR 08	2 nd Sem (C) RA 43 6 th Sem (M) Seminar/GD RR
Saturday	2 nd Sem (C) RA 43	4 th Sem (M) RA 08 6 th Sem (M) MS 01	2 nd Sem (M) MS 08 4 th Sem (C) dept. BB 6 th Sem (M) RR 06	6 th Sem (C) RR 43	4 th Sem (M) 08 BB 6 th Sem (M) dept. RA	2 nd Sem (M) Seminar/GD RR 4 th Sem GD/remedial 6 th Sem (M) BB 08	6 th Sem (M) Seminar/GD/ Remedial MS

Faculty Name	Total Class
R. Ahmed	17
B. Bora	16
M. Saikia	18
R. Rabha	14


HoD, Department of Economics
Bahona College, Jorhat


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Principal,
Bahona College




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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

Department of Economics, Odd semester, 2019 - 20

Days	9.15	10.15	11.15	12.15	1.15	2.15	3.15
Monday	3 rd (M) dept. RR 5 th (C) 03 MS 5 th (M) BB	HS I MS 1 st (H) 05 BB 5 th (M) dept. RA	1 st (H) dept. RA 5 th (M) 05 RR	3 rd (M) dept. MS 5 th (M) Mentoring	5 th (M) dept. MS 1 st (GE) 03 RA 3 rd (M) Mentoring	1 st B.Sc (GE) 03 RA 5 th (M) dept. BB	Tutorial HS I RA HS II BB
Tuesday	1 st (GE) 03 RR 5 th (M) dept. BB	3 rd (M) 01 RA 5 th (M) dept. MS 1 st (H) RR	1 st (H) 03 BB 5 th (C) dept. RA	5 th (M) dept. RR 3r (M) Mentoring	3 rd (M) dept MS 1 st Sem Tutorial	1 st GD/Seminar/Field Work BB 3 rd (C) 03 MS 5 th (M) dept. RA	5 th (M) Tutorial 1 st (M) GD/Seminar
Wednesday	3 rd (M) dept. RA 5 th (C) 81 MS	1 st (H) RR 5 th (M) dept. BB	HS II RA 3 rd (M) dept. BB 5 th (M) 03 MS	HS I RR 1 st (M) 03 MS 5 th (M) dept. RA	5 th (M) dept. RR 3 rd Sem Tutorial	HS I (Tutorial) 1 st (GE) 01 BB 3 rd (C) 05 RA	3 rd GD/Seminar/Field Work RA/MS 1 st (M) Tutorial
Thursday	1 st (H) 03 MS 5 th (M) dept. RR	1 st (GE) BB 5 th (M) dept. RA 1 st (M) Remedial	1 st (H) RR 3 rd (M) 03 RA 5 th (C) 81	3 rd (M) dept. BB 1 st (M) Mentoring	HS II RR 5 th (M) dept. BB	5 th (M) dept. MS HS I EVS 3 rd (M) Remedial	5 th GD/Seminar/Field Work RA/RR 3 rd (M) tutorial HS I tutorial MS/RA
Friday	1 st (H) 08 BB 3 rd (M) Dept. RR HS II MS	1 st (H) dept. RA 5 th (M) RR	3 rd (M) 03 MS 5 th (M) dept. BB	HS I RA 5 th (M) dept. MS	5 th (M) dept. RA	3 rd (C) 06 BB 5 th (M) Mentoring	HS I (Tutorial) MS 5 th (M) GD/Seminar/ RA 3 rd (M) Tutorial
Saturday	1 st (H) dept. MS 5 th (M) 03 BB	3 rd (M) dept. RR 5 th (M) dept. RA	1 st (M) dept. RA 5 th (M) 82 MS	1 st (GE) 03 MS 3 rd (M) Dept. BB	HS I MS 5 th (M) dept. RR	HS I EVS (A+Sc.) HS II BB 3 rd (C) RR	HS I Tutorial RR HS II Tutorial MS 5 th (M) Remedial

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 Bahona College, Jorhat

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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

Department of History

Class Routine 2020-21

Odd Semester

HS and B.A. (CBCS/Non CBCS)

Day	9:15 -10:15	10:15-11:15	11:15-12:15	12:15- 1:15	1:15-2:15	2:15-3:15	3:15-4:15
Monday	III (H)-08 V(M)-D	I(H)-08 V(M)-D	HS.II-22 I(G)-08 III(H)-D	III(G)-NBH V(M)-D	I(H)-08 V(M)-D	Remedial/Tutorial/Mentorig /Seminar/Group Discussion (I) III(SEC)	
Tuesday	I(H)-08 V(M)-D	HS.I-9 III(H)-NBH V(M)-D	III(G)NBH V(M)-D	HS.II I(G)-01 V(M)-D	I(H)-01 III(H)-D	Remedial/Tutorial/Mentorig /Seminar/Group Discussion (I, III, V)	
Wednesday	I (H)-01 V(M)-D	III(H)-01 V(M)-D	HS.I I(H)-01 III(H)-D	III(G)-01 V(M)-D	HS.II I(G)-01 V(M)-D	Remedial/Tutorial/Mentorig/ Seminar/Group Discussion (I, V) III(SEC)	
Thursday	HS. I I(G)-23 III(H)-D	III(G)-23 V(M)-D	V(M)-D	I(H)-01 III(H)-D	I(H)-01 III(H)-D	Remedial/Tutorial/Mentorig g/Seminar/Group Discussion (III) V(M)-D	
Friday	I (H)-23 V(M)-D	III(H)-23 V(M)-D	I(H)-23 V(M)-D	I(G)-23 III(H)-D	III(SEC) V(M)-D HS.I	NCC (I,III,V)	
Saturday	III(H)-23 V(M)-D	I(H)-23 V(M)-D	I(H)-23 III(H)-D	HS. I HS.II V(M)-D	I(H)-23 V(M)-D		

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03/11/2020

Keshab Chandra Nath

HOD, Department of History,

Bahoma College, Jorhat, Assam

Time-Table of Dept of History

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(Dr. P.K. Dutta)
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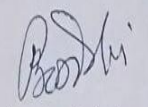


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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

BAHONA COLLEGE: DEPARTMENT OF MATHEMATICS
TDC 1st, 3rd and 5th SEMESTERS (ROUTINE W.E.F. 02.11.2020)
Session : 2020-21

DAY/TIME	9:15-10:15	10:15-11:15	11:15-12:15	12:15-01:15	01:15-02:15	02:15-03:15	03:15-04:15
MON	SI(M)PNB SIII(M)MJB	SI(M) PB SIII(M)AKD	SI(GEN) AKD SIII(M)MJB	SIII(GEN)PNB	XII MJB SI(M)Practical	XI PNB SI(M)Practical	
TUE	SIII(M) MJB	SI(M) SIII(M)PB	SI(M) SIII(GEN)PNB	SI(GEN) SIII(M)Practical SV(M)MJB	SV(M)PNB SIII(M)Practical	SV(M)AKD	XI AKD SV(M) PB
WED	XII-PNB SI(M) MJB SIII(M) AKD	SIII(M)MJB SV(M) AKD	XI AKD SV(M)MJB	SI(M) MJB SV(M)PB SIII(GEN) PNB	SI(GEN) MJB SV(M)PB	SV(M)PB	SIII(M) Seminer/Remadial/ Tutorial/Mentoring
THUR	SI(GEN) MJB SIII(M) AKD	SI(M) PB SIII(GEN) PNB SV(M) PNB	SI(GEN) AKD SV(M) MJB	SV(M)AKD	SI(M)Practical SIII(M)MJB SV(M) PB	SI(M)Practical SV(M) PB	SIII(M) Seminer/Remadial/ Tutorial/Mentoring
FRI	SI(M) MJB SIII(M) AKD	XII- AKD SI(M) PNB SIII(M) PB SV(M) MJB	SV(M) MJB	SV(M)PNB	XI PNB SV(M)AKD	SV(M) PB	SV(M) PB
SAT	SI(M) MJB SV(M)MJB	SI(M) MJB SV(M)AKD SIII(M)PB	SIII(M) AKD SV(M) PNB	SV(M) PB XI-MJB	SIII(M)MJB	SV(M) PB	SIII(M) Seminer/Remadial/ Tutorial/Mentoring


(P. Bordoloi)
H.O.D, Mathematics.

H.O.D.
Department of Mathematics
Bahona College, Jorhat

Time-Table of Dept of Mathematics


(Dr. P.K. Dutta)
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PROGRAMME FOR REMEDIAL CLASS- 2021
(ODD SEMESTER)

Date	Time	Semester	Name of Teacher
20/12/2021	1.15PM – 2.15 PM	SEM. - V	Dr. Sumbit Chaliha
	2.15PM – 3.15 PM	SEM. - III	Digonta Pd Gogoi
	2.15PM – 3.15 PM	SEM. - I	Dr. Himanshu Rajbongshi
	2.15PM – 3.15 PM	SEM. - V	Dr. Aishawnnya Sharma
21/12/2021	1.15PM – 2.15 PM	SEM. - III	Dr. Pragyan Jyoti Gogoi
	2.15PM – 3.15 PM	SEM. - V	Dr. Himanshu Rajbongshi
	2.15PM – 3.15 PM	SEM. - I	Digonta Pd Gogoi
	2.15PM – 3.15 PM	SEM. - III	Dr. Aishawnnya Sharma
22/12/2021	1.15PM – 2.15 PM	SEM. - V	Digonta Pd Gogoi
	2.15PM – 3.15 PM	SEM. - III	Dr. Sumbit Chaliha
	2.15PM – 3.15 PM	SEM. - V	Dr. Pragyan Jyoti Gogoi
	2.15PM – 2.15 PM	SEM. - I	Dr. Aishawnnya Sharma
23/12/2021	1.15PM – 2.15 PM	SEM. - III	Dr. Sumbit Chaliha
	2.15PM – 3.15 PM	SEM. - V	Dr. Pragyan Jyoti Gogoi
	2.15PM – 3.15 PM	SEM. - I	Dr. Himanshu Rajbongshi
	2.15PM – 3.15 PM	SEM. - III	Dr. Aishawnnya Sharma
24/12/2021	2.15PM – 3.15 PM	SEM. - I	Dr. Himanshu Rajbongshi
	1.15PM – 2.15 PM	SEM. - V	Digonta Pd Gogoi
	2.15PM – 3.15 PM	SEM. - III	Dr. Pragyan Jyoti Gogoi
	2.15PM – 3.15 PM	SEM. - V	Dr. Sumbit Chaliha
27/12/2021	2.15PM – 3.15 PM	SEM. - III	Dr. Pragyan Jyoti Gogoi
	1.15PM – 2.15 PM	SEM. - V	Dr. Aishawnnya Sharma
	2.15PM – 3.15 PM	SEM. - I	Dr. Himanshu Rajbongshi
	2.15PM – 3.15 PM	SEM. - V	Digonta Pd Gogoi

SChaliha
15/12/2021
Head

Department of Physics
Head
Department of Physics
Bahona College

Time-Table of Dept of Physics


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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

CLASS SCHEDULE 2020
(Even Semester)
DEPARTMENT OF POLITICAL SCIENCE
BAHONA COLLEGE

Day	09.15-10.15	10.15-11.15	11.15-12.15	12.15-01.15	01.15-02.15	02.15-03.15	03.15-04.15
Monday	4 sem(M)D MD	2 sem(H)8 SM 6sem(M)D RP	2sem(G)72RP 4sem(C)23SM 6sem(M)MD	2sem(H)8PB 4sem(M)D SM	6sem(M)D PB	Tutorial 6sem SM	2sem(H) Sem/GD RP
Tuesday	2sem(M)D RP	2sem(G)23MD 4sem(M)PB	6sem(M)D SM	2sem(H)1 MD 4sem(M)8RP 6sem(M)D PB 6sem(C)42 SM	6sem(M)D RP	4sem(MDC)23 SM 6sem(M)D MD	9.0-6.50 PB 4.0-2.30 MD
Wednesday	2sem(H) 8 PB 4sem(M)D SM	2sem(H)1 SM 6sem(M)D RP	4sem(M)8 MD 6sem(M)D PB	2sem(G)23MD 6sem(C)42RP	4sem(C)23RP 6sem(M)D MD	6sem(M)D SM	4sem SEM/GD MD
Thursday	6sem(M)D PB	2sem(G)23SM 4sem(M)8RP 6sem(M)D RP	2sem(H)1RP 6sem(C) 42SM	4sem(M)8PB 6sem(M)D SM	6sem(M)D RP 2sem(H)8MD	4sem(C)23PB	2sem SEM/GD SM
Friday	2sem(H)8SM 4sem(M)D MD	6sem(M)D RP	2sem(H)1PB 6sem(M)D MD	4sem(M)8SM 6sem(M)D PB	-	6sem(M)D SM	GD/SEM PB
Saturday	2sem(H)8MD	4sem(M)8PB 6sem(M)D SM	2sem(G)23SM 6sem(M)D RP	2sem(H)1RP 6sem(C)42PB	4sem(M)8RP 6sem(M)D PB 4sem(C)23MD	4sem(M)8SM 6sem(M)D MD	6sem GD/SEM RP


HOD

Head, Department of Political Science
Bahona College, Jorhat


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



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Departmental Time Tables Mentioning Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

ROUTINE
DEPARTMENT OF POLITICAL SCIENCE
SESSION- 2020(ODD SEMESTER)

Day	09.15-10.15	10.15-11.15	11.15-12.15	12.15-01.15	01.15-02.15	02.15-03.15	03.15-04.15
Monday	3H 01 PB 5M-MD	1H-01SM ✓ 5M-RP	HS1 PB 1G-01 MD 3H-D-RP	HS 2 MD 3G-72-SM ✓ 5M-D-PB	1H-01-RP 5M-D-SM ✓	5M-D-MD	GD/SEM 5(M) SM ✓
Tuesday	1H-01-RP 5M-D-PB	3H-01-MD 5M-D-SM ✓	3G-08-PB 5M-D-RP	1G-08-RP 5M-D-MD	1H-08-PB 3H-D-SM ✓	HS2-RP	REMIDIAL- 3H-RP
Wednesday	1H-08-SM ✓ 5M-D-MD	3H-08-PB 5M-D-RP HS2-MD	1H-08-RP 3H-D-MD	3G-08-PB 5M-D-SM ✓	5M-D-PB HS1-SM ✓	1G-23-RP	GD/SEM-3H- MD TUTORIAL HS-PB
Thursday	1G-01-RP 3H-D-PB	3G-01-SM ✓ 5M-D-MD	5M-D-RP	1H-23-PB 3H-D-RP HS1SM ✓	1H-23-MD 5M-D-PB	5M-D-SM ✓	MENTORING- BY ALL TEACHERS
Friday	1H-08-SM ✓ 5M-D-MD HS2-RP	3H-08-RP 5M-D-PB	1H-08-MD 5M-D-SM ✓	1G-08-MD 3H-D-SM ✓	5M-D-RP	HS1-PB	GD/SEM-3H- RP
Saturday	3H-08-MD 5M-D-PB	1H-08-PB 5M-D-RP	1H-08-MD 3M-D-SM ✓	5M-D-MD 3H-08-RP	5M-D-SM ✓	5M-D-PB	GD/SEM-5M- SM ✓ REMIDIAL- 1H-RP

HOD

[Signature]
Head, Department of Political Science
Bahona College, Jorhat

Time-Table of Dept of Political Science [Page 2]

[Signature]
(Dr. P.K. Dutta)
Principal
Bahona College



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Attendance Registers of Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

School Register No. _____ **TEACHER ATTENDANCE** For the month of _____

Name Miss P. Boruah P.O. _____

Name				Name				Name				
Date of the Month	Time of Arrival	Signature	Time of Departure	Signature	Time of Arrival	Signature	Time of Departure	Signature	Time of Arrival	Signature	Time of Departure	Signature
1												
2												
23/01/21					No. of students present = 06				Topic - Algae, Karyology & reproduction of vascular			
4												
25/01/21					" " = 08				Topic - Diffusion, osmosis			
6												
27/01/21					" " = 05				Topic - Classification of algae			
8												
9												
10												
11												
12												
13												
14												
15/01/21					No. of students present = 09				Topic - Physiology - Photosynthesis			
16												
17												
08/11/21					" " = 05				Topic - Medicinal Plants			
19												
20/11/21					" " = 06				Topic - DSE - microbiology			
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Sick Casual												
Leaves												
Total												

Enjoyed in this month _____

Attendance Register of Dept of Botany [Page 1]


 (Dr. P.K. Dutta)
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Attendance Registers of Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

School Register No. _____ **TEACHER ATTENDANCE**
 For the month of _____

Name Dr. S. Das P.O. _____

Date of the Month	Name			Name			Name					
	Time of Arrival	Signature	Time of Departure	Signature	Time of Arrival	Signature	Time of Departure	Signature	Time of Arrival	Signature	Time of Departure	Signature
25/01/21	5 th (M)	—	Total present = 16	—	Topic - chromatography							
25/09/21	1(M)	—	Total present =	—	Topic - Chara (algae)							
28/09/21	5 th (M)	—	Total present = 06	—	Topic - Rf value, calculation (chrom)							
05/09/21	3(C)	—	Total present = 03	—	Topic - Rorbis -							
5												
6												
7												
05/10/21	5 th (M)	—	Total present = 01	—	BLAST -							
08/10/21	1 st (C)	—	Total present = 11	—	Cell Division							
07/10/21	6 th (C)	—	Total present = 07	—	Mendell laws, Genetics							
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Sick Casual	Leaves											
Total												
Enjoyed in this month												

Attendance Register of Dept of Botany [Page 2]


 (Dr. P.K. Dutta)
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Attendance Registers of Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

Remedial classes 1st Semester
 DT: 2021

School Register No. 1

Register of Daily Attendance

1st Semester (Honours)

Credence NAME..... CLASS..... SECTION

Roll No.	NAME	ATTENDANCE																							
		3/11	10/11	17/11	24/11	31/11	7/12	14/12	21/12	28/12	4/1	11/1	18/1	25/1	1/2	8/2	15/2	22/2	29/2	6/3	13/3	20/3	27/3		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		
		P	P	P	P	P	P																		

& F
SCHOL
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Attendance Register of Dept of Education

(Dr. P.K. Dutta)
 Principal
 Bahona College



Coordinator
 IOAC
 Bahona College, Jorhat
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Attendance Registers of Tutorial Classes for Advanced Learners and Remedial Classes for Slow Learners

Register of Daily Attendance
NAME.....Dr. Parbin Dasgupta.....
Remedial CLASS.....1st Sem. SECTION.....2021.....

Roll No.	NAME	ATTENDANCE																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		3/12/2021																						
		Topic - Coral Reef formation -																						
		Topic - Survivorship Curve - and life table																						

Attendance Register of Dept of Zoology [Page 2]


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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Orientation Class
B.Sc 2nd Semester (Core)
Session: 2021-22

Presented By:
Dr. Sangeeta Das
Assistant Professor
Department of Botany
Bahona College, Jorhat, Assam, India.
Date: 20.05.2021

2nd Sem (Core)

16 participants

All muted Add people Host controls

IN CALL

- Dr. Sangeeta Das (You)
- Dr. Sangeeta Das Your presentation
- APURBA BORAH
- Ashish Borah
- bhagyashree gondhia
- Bhaskar Thakur
- Dipankar Borah

2nd Sem (Core) Raise hand Turn on captions You are presenting

Course Orientation Programme 2021
Sixth Semester (Non-CBCS)
Department of Botany
Bahona College, Jorhat

By
Dr. Rafiul Amin Laskar
20/05/2021

6th Sem Maj Botany

21 participants

18 muted

Botany Department (You)

Botany Department Your presentation

Adity Laskar

ANIL ENGTI

bharat ozah

6th Sem Maj Botany Raise hand Turn on captions You are presenting

Online Orientation Programme for 2nd and 6th Semester Students held on 2021 by Dept of Botany


(Dr. P.K. Dutta)
Principal,
Bahona College




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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Report on Course Orientation Program, 2016-2017

Date:

With the intention to inform the students about the course structure and course progression according to various semesters, an orientation programme was organized in presence all the students of the department and faculties of the department. Dr. Omar S. Ahmed & Dr. Parinita Borah discussed the salient points of the ongoing Non-CBCS course . The students were made aware regarding the course objectives, content of the syllabus and course outcomes of various papers. The 1st semester students were advised to have a copy of the syllabus with them. Tentative schedule of the sessional examinations and procedure for internal assessment was also informed to the students. Besides, important books for the relevant semester was also suggested.

With a positive welcoming note to the students, the meeting was adjourned.

Signature of the HoD
Dr. Parinita Borah

Head
Department of Chemistry
Bahona College, Bahona

Report of Orientation Programme for the Academic Year 2016-17 by Dept of Chemistry

(Dr. P.K. Dutta)
Principal,
Bahona College



Coordinator
IOAC
Bahona College, Jorhat
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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Report on Course Orientation Program, 2017-2018

Date:

To inform the students about the course structure and course progression according to various semesters, an orientation programme was organized in presence all the students and faculties of the department. Dr. Omar S. Ahmed & Dr. Parinita Borah discussed the salient points of the ongoing Non-CBCS course . The students were made aware regarding the course objectives, content of the syllabus and course outcomes of various papers. The 1st semester students were advised to have a copy of the syllabus with them. Tentative schedule of the sessional examinations and procedure for internal assessment was also informed to the students. Besides, important books for the relevant semester was also suggested.

With a positive welcoming and best wishes for a successful academic year to the students, the meeting was adjourned.

Signature of the HoD
Dr. Parinita Borah
Head
Department of Chemistry
Bahona College, Bahona

Report of Orientation Programme for the Academic Year 2017-18 by Dept of Chemistry

(Dr. P.K. Dutta)
Principal
Bahona College



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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Report on Course Orientation Program, 2018-2019

Date:

To inform the students about the course structure of the Non-CBCS course and course progression according to various semesters, an orientation programme was organized in presence all the students and faculties of the department. Dr. Parinita Borah, Miss Aradhana Saikia and Miss. Sudhamoyee Kotoky discussed various points of the ongoing Non-CBCS course. The students were made aware regarding the course objectives, content of the syllabus and course outcomes of various papers. The 1st semester students were advised to have a copy of the syllabus with them. Tentative schedule of the sessional examinations and procedure for internal assessment was also informed to the students. Besides, important books for the relevant semesters was also suggested.

With best wishes for a successful academic year to the students, the meeting was adjourned.

Signature of the HoD
Dr. Parinita Borah

Head
Department of Chemistry
Bahona College, Bahona

Report of Orientation Programme for the Academic Year 2018-19 by Dept of Chemistry

(Dr. P.K. Dutta)
Principal,
Bahona College



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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Report on Course Orientation Program, 2019-2020

Date:

To inform the students about the course structure of the Non-CBCS course and course progression according to various semesters, an orientation programme was organized in presence all the students and faculties of the department. Dr. Parinita Borah, Miss Aradhana Saikia and Dr. Champak Dutta discussed various points of the ongoing Non-CBCS & CBCSs courses. The students were made aware regarding the course objectives, content of the syllabus and course outcomes of various papers and the difference between CBCS & Non-CBCS course. The 1st semester students were advised to have a copy of the syllabus with them. Tentative schedule of the sessional examinations and procedure for internal assessment was also informed to the students. Besides, important books for the relevant semesters was also suggested.

With best wishes for a successful academic year to the students, the meeting was adjourned.


Signature of the HoD
Dr. Parinita Borah
Head
Department of Chemistry
Bahona College, Bahona

Report of Orientation Programme for the Academic Year 2019-20 by Dept of Chemistry


(Dr. P.K. Dutta)
Principal
Bahona College




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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

**Course
Counseling
Sixth Semester**

**Department of Economics,
Bahona College**

Date : 20.05.2021

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Screenshot of Online Orientation Programme held on 20/05/2021 by Dept of Economics [Page 1]


(Dr. P.K. Dutta)
Principal,
Bahona College

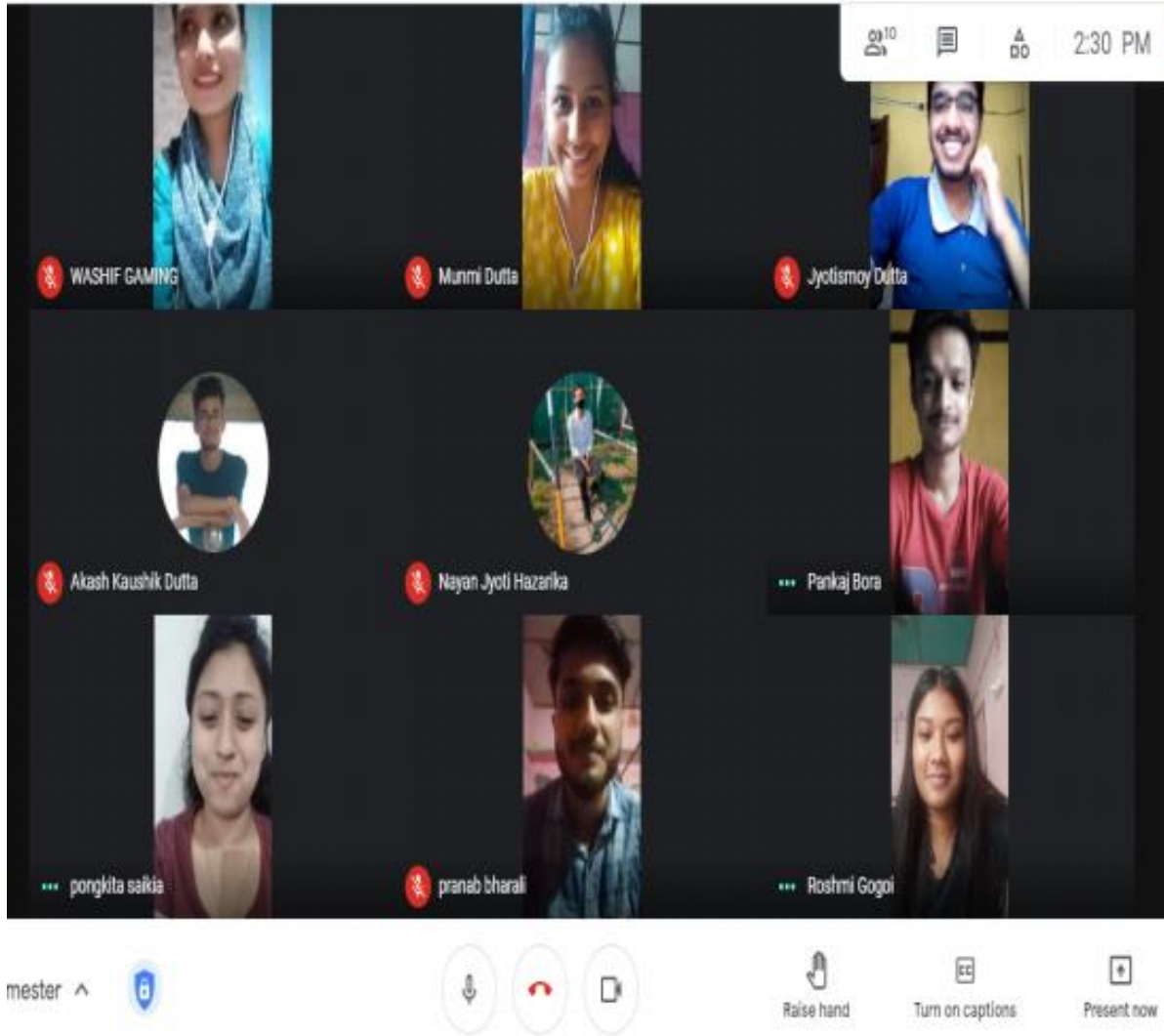



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Screenshot of Online Orientation Programme held on 20/05/2021 by Dept of Economics [Page 2]


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Screenshot of Online Orientation Programme organised by Dept of Education [Page 1]


(Dr. P.K. Dutta)
Principal,
Bahona College

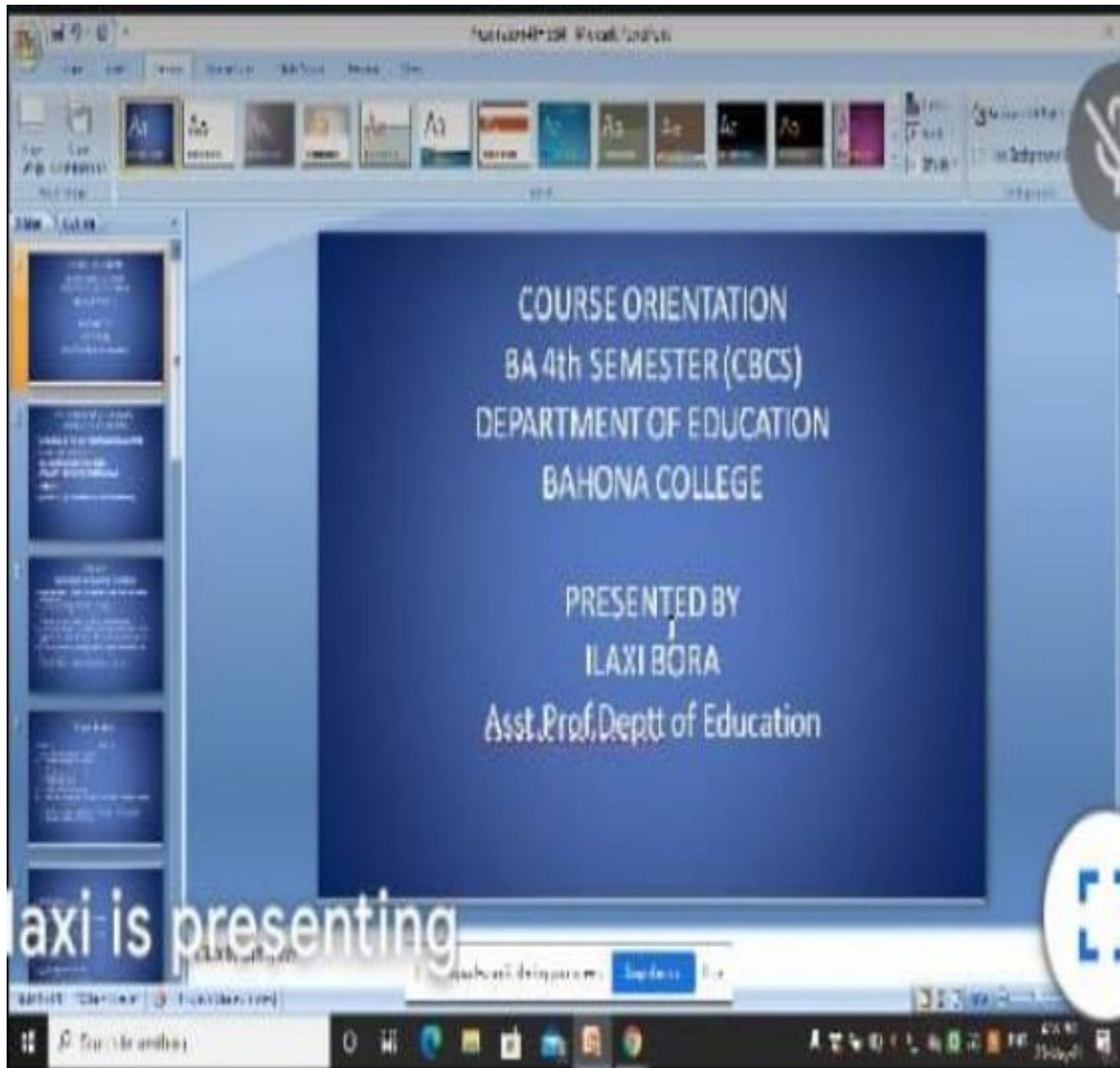



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Screenshot of Online Orientation Programme organised by Dept of Education [Page 2]


(Dr. P.K. Dutta)
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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Minutes of the Orientation/Freshers/Farewell Programme of Dept of History, Bahona College, held on 01/11/2021

The annual orientation/freshers/farewell programme the Dept of History, Bahona College took place on 01/11/2021 at 1200 hrs at Auditorium of the college. As the length of the academic year has been shortened due to the ongoing pandemic situation, three events were combined into one to conserve valuable work hours. These three events were-

1. Orientation programme for the 1st Semester students of the academic year 2021-22.
2. Departmental Freshers Programme for the 1st Semester students of the academic year 2021-22.
3. Farewell programme for the outgoing batch of students of the academic year 2020-21.

All the current and ongoing students were present at the programme. In addition, all the current faculty of the Dept as mentioned below were also present-

No.	Faculty	Designation
1.	Keshab Chandra Nath	HOD, Dept of History
2.	Dr. Fakrul Islam Laskar	Assistant Professor, Dept of History
3.	Bikram Bora	Assistant Professor, Dept of History

The events of the programme were-

1. Keshab Chandra Nath, HOD, Dept of History welcomed the 1st Semester students. He outlined the course objectives, the curriculum and the the course structure for the students. He also advised the students to participate in all academic and extracurricular activities of the college.
2. Dr. Fakrul Islam Laskar, Assistant Professor, Dept of History welcomed the students and discussed the academic activities to be conducted by the Dept in the academic year.
3. Bikram Bora, Assistant Professor, Dept of History welcomed the students, asked them to participate in all activities in the college, while maintaining a healthy balance between work and leisure. He also informed the students that the college strictly follows a zero-tolerance policy towards ragging.
4. Cultural activities were performed by the current and outgoing students.
5. A cordial introduction session of the 1st Semester students of the academic year 2021-22 took place.
6. The Faculty handed out mementoes and certificates of appreciation to the outgoing batch of students of the academic year 2020-21.
7. Many students of the outgoing batch of academic year 2020-21 were unable to be present at the event, as they have joined their respective Masters programmes at their universities. For those students, the event was livestreamed online.
8. The students of the outgoing batch of academic year 2020-21 gifted the faculty with a framed photograph.

Report of Orientation Programme held on 01/11/2021 by Dept of History [Page 1]


(Dr. P.K. Dutta)
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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

9. At the end, lunch was served to the students and the faculty.



Date: 04/11/2021
Keshab Chandra Nath
HOD, Dept of History
HEAD
Date: Department of History
Bahona College, Jorhat

Report of Orientation Programme held on 01/11/2021 by Dept of History [Page 2]

(Signature)
(Dr. P.K. Dutta)
Principal,
Bahona College



(Signature)
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Orientation Programme held on 09/11/2020 by Dept of Mathematics [Page 1]


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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed



Orientation Programme held on 09/11/2020 by Dept of Mathematics [Page 2]


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Orientation Programme held on 11/10/2021 by Dept of Political Science


(Dr. P.K. Dutta)
Principal
Bahona College




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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

Course Orientation

Sl No	Discussion	Year/Date/Time	Total No. of Students		Name of the Resource Person	Photo/Remarks
			Present	Absent		
1	To inform about the Syllabus & Curriculum, departmental activities, departmental discipline, Home Assignment Procedure, library facility, Seminar Presentation,	2016-2017	15		Mr. Sanjay Mili	No
2	To inform about the Syllabus & Curriculum, departmental activities, departmental discipline, Home Assignment Procedure, library facility, Seminar Presentation,	2017-2018	12		Mr. Ranjit Pegu	No
3	To inform about the Syllabus & Curriculum, departmental activities, departmental discipline, Home Assignment Procedure, library facility, Seminar Presentation,	2018-2019	40	01	Dr. Mindul Dutta	No
4	To inform about the Syllabus & Curriculum, departmental activities, departmental discipline, Home Assignment Procedure, library facility, Seminar Presentation,	2019-2020	32		Dr. Pankaj Borah	No
5	To inform about the Syllabus & Curriculum, departmental activities, departmental discipline, Home Assignment Procedure, library facility, Seminar Presentation,	2020-2021	50		Dr. Sanjay Mili	Yes

[Signature]
Head, Department of Political Science
Bahona College

Report of Orientation Programmes held between 2016-2021 by Dept of Political Science

[Signature]
(Dr. P.K. Dutta)
Principal,
Bahona College



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Orientation Programmes for Students to Acquaint them with the Teaching-Learning process and how Learning Levels are Assessed

You are screen sharing Stop Share

Course Orientation Prog

for

6th Semester Studen

(B.Sc. Zoology)

Department of Zoology

Bahona College, Jorhat, Assam

Date: 20-05-2021

Screenshot of Online Orientation Programmes held on 20/05/2021 by Dept of Zoology


(Dr. P.K. Dutta)
Principal
Bahona College




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Orientation Programmes for students to Acquaint Them with the Learning Resources Available with the College Library



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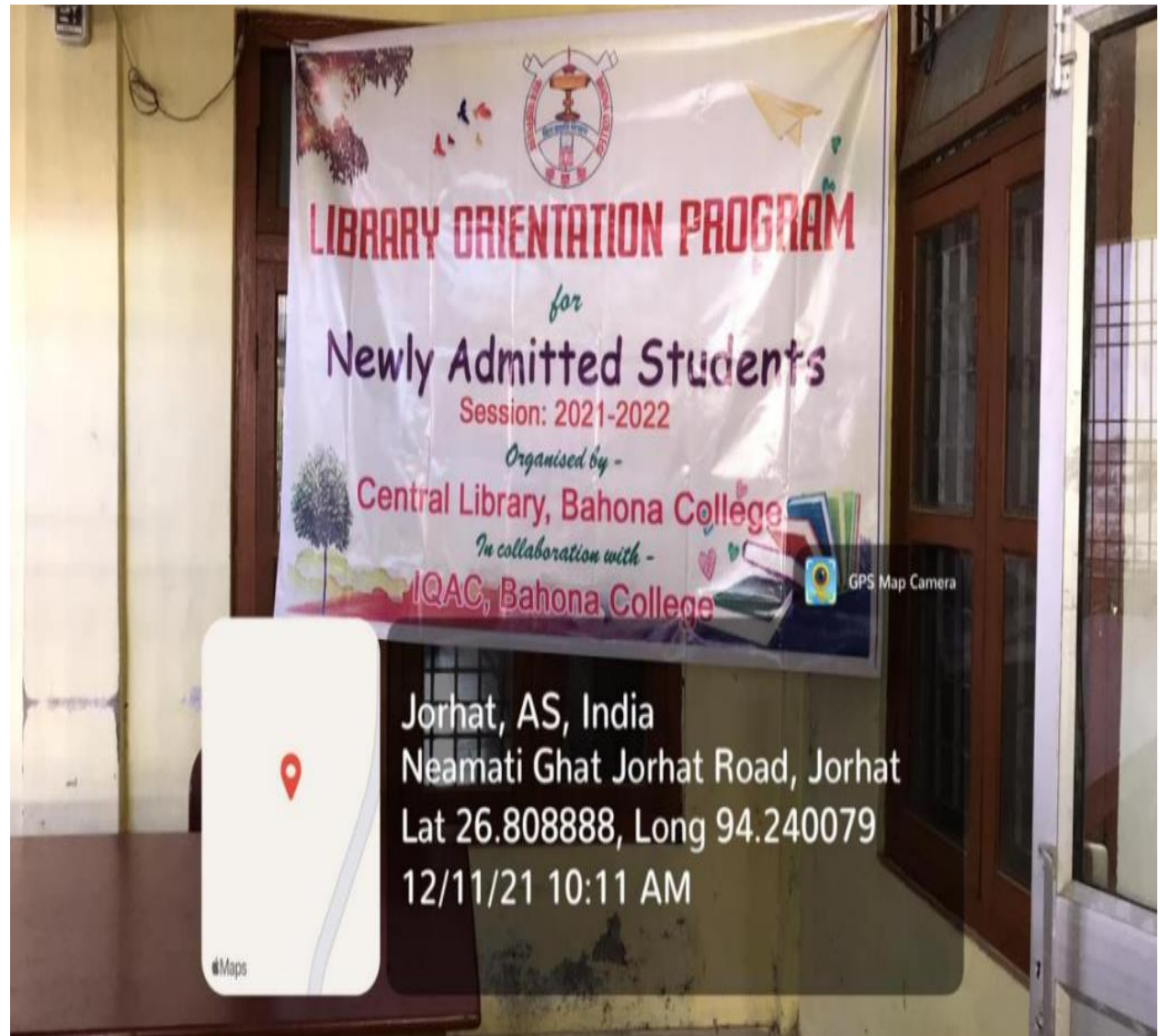



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Orientation Programmes for students to Acquaint Them with the Learning Resources Available with the College Library



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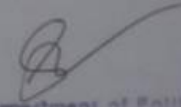


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Customised Procedures are Followed by Individual Departments to Engage with Advanced Learners

Procedure of treating advanced Learners

Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
[Redacted]	30T	-02	- The Department and individual teachers help the slow learners by giving proper guidance and support to them. - we tried to orient not only learners but also parents. - Corrective classes are conducted for the weaker students on the results of class tests.	
	30T			
	30	-02		
	2016-2017			
	31			
	5+	-02		
5+				


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Bahona College, Jorhat

Report of Procedure for Advanced Learners by Dept of Political Science [Page 1]


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

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Customised Procedures are Followed by Individual Departments to Engage with Advanced Learners

Procedure of treating advanced Learners


Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
	3 rd	02	<ul style="list-style-type: none"> • Advanced learners are motivated to strive for higher goals. • They are provided with additional inputs for better career planning and growth through offering special coaching for higher level competitive examinations. • Motivating them to involve in research projects to inculcate research orientation and higher studies aspirations. • Helping them to participate in group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills. 	
	3 rd	02		
	5 th 2017-2018	02		
	5 th	02		


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Report of Procedure for Advanced Learners by Dept of Political Science [Page 2]


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Customised Procedures are Followed by Individual Departments to Engage with Advanced Learners

Procedure of treating advanced Learners

Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
[Redacted]	3 rd T	02	<ul style="list-style-type: none"> Advanced learners are motivated to strive for higher goals. Encouraging the Advanced learners to make quality publications and creative contributions to the academic as well as to the practical world. The mentors give higher goals and also make the Advanced learners get higher levels of personality development and stress management trainings. 	
[Redacted]	3 rd T			
[Redacted]	3 rd A	02		
[Redacted]	3 rd 2018-2019			

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Report of Procedure for Advanced Learners by Dept of Political Science [Page 3]

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Procedure of treating advanced Learners

Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
[Redacted]	501	- 02	* They are provided with Additional inputs for better career planning and growth through offering special coaching for higher level competitive examinations. * Helping them to participate in group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby to improve their presentation skills	
	501			
	2A	- 02		
	2A 2019-2020			
	501	- 03		
	501			
501				

[Signature]
Principal of Bahona College, Jorhat

Report of Procedure for Advanced Learners by Dept of Political Science [Page 4]

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Customised Procedures are Followed by Individual Departments to Engage with Slow Learners

Procedure of treating Slow Learners

Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
	3oT		<ul style="list-style-type: none">• Slow learners are specially advised and consulted by a teacher guardian and the subject expert.• Connective classes are conducted for the weaker students based on the results of class tests.• The support of the alumni is also effectively used to make visits and mentoring to the slow learners.	
	3oT			
	3oT 2016-2017	- 04		
	3oT			
	2oT	- 02		
	3oT	- 02		
	5TH			
	5TH			

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Bahona College, Jorhat

Report of Procedure for Slow Learners by Dept of Political Science [Page 1]

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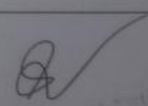
(Signature)
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Customised Procedures are Followed by Individual Departments to Engage with Slow Learners

Procedure of treating Slow Learners


Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
	doT	- 02	<p>We have organized bridge classes and Remedial programmes for them weekly.</p> <p>Special attention is given to the students in the tutorial classes, who are identified as the slow learners.</p> <p>We tried to orient not only learners but also parents.</p>	
	doT			
	BA	- 02		
	2018-2019 BA			
	ST	- 02		
	ST			


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Report of Procedure for Slow Learners by Dept of Political Science [Page 2]


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Customised Procedures are Followed by Individual Departments to Engage with Slow Learners

Procedure of treating Slow Learners

Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
[Redacted]	20T	03	We regularly discuss the learners regarding Academic and personal counseling through Teacher mentoring and the counselling cell.	
[Redacted]	20T			
[Redacted]	20T			
[Redacted]	3A 2017-2018	03	Revision of simple and standard lecture note materials and special preparation for the exams will be good.	
[Redacted]	3B			
[Redacted]	3C			
[Redacted]	5th	02	Getting the support of the advanced learners to the slow learners in making their learning process more participatory and interesting.	
[Redacted]	5th			

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Report of Procedure for Slow Learners by Dept of Political Science [Page 3]

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Customised Procedures are Followed by Individual Departments to Engage with Slow Learners

Procedure of treating Slow Learners


Name of the Student	Year/Semester	Total No. of Students	Procedure Followed	Remarks
	30T	- 02	*Slow learners are specially advised and counseled by a teacher guardian and the subject expert. *Design special coaching sessions to bridge the gap between the slow learners and advanced learners are provided. *The support of the library is also effectively used to motivate and motivate the slow learners.	
	30T			
	3A	- 02		
	2019-2020			
	3A			
	5M	- 02		
5M				


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Report of Procedure for Slow Learners by Dept of Political Science [Page 4]


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Home Assignments Submitted by Students are Used to Assess Learning Levels

Home Assignment

ঘৰতলৈ বৰ্ণনা
প্ৰতিভা চক্ৰবৰ্তী শিবিৰতলৈ
দ্বাৰতক প্ৰথম স্নাতকোত্তৰ
শ্ৰেণী নং — ১৭৭
২০২০

Assignment Submitted by Advanced Learner from Dept of Assamese [Page 1]


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Home Assignments Submitted by Students are Used to Assess Learning Levels

১) শত্ৰুক্ষেত্ৰৰ যুগৰ স্মৃতি :

ঔক্ষয়ীয়া সাহিত্যৰ ইতিহাসৰ পৰা ২৮-৩০ প্ৰাক্ৰিস্টলৈ এই সময়ছোৱাক অৰ্ঘ্যযুগৰ হুবহু নামকৰণ কৰা হৈছে। শত্ৰুক্ষেত্ৰৰ যুগ বা শত্ৰুক্ষেত্ৰৰ যুগ পৰা অনন্যৰ ঐতিহাসিক, সামাজিক আৰু অৰ্থনৈতিক দৃষ্টিতে বহুখণ্ডৰ পৰিভ্ৰমণৰ সূচনা হয়। শত্ৰুক্ষেত্ৰৰ যুগৰ সাহিত্যৰ প্ৰাণকেন্দ্ৰস্বৰূপে কেম্ৰিছৰ ঐতিহাসিক অধ্যয়ন আৰু অৰ্থনৈতিক দৃষ্টিতে কেম্ৰিছৰ পৰা উদ্ভূত আছিল বৰ্ত্তমানৰ ইতিহাস।

২) শত্ৰুক্ষেত্ৰৰ যুগৰ বৈশিষ্ট্য :

শত্ৰুক্ষেত্ৰ - অৰ্ঘ্যযুগৰ ভিতৰত প্ৰায় ১০ বছৰ শত্ৰুক্ষেত্ৰৰ প্ৰাৰম্ভৰপৰা শত্ৰুক্ষেত্ৰত আমি চাৰিত - পুষ্টি আৰু পদ্য সাহিত্যৰ উদ্ভৱ আৰু বিকাশৰ যুগ বুলিব পাৰো। ইয়াত, ঐতিহাসিক, ভাষাতত্ত্ব আৰু অৰ্থনৈতিক দৃষ্টিতে পুষ্টিৰ উদ্ভৱ আৰু অৰ্ঘ্যযুগৰ নতুন নতুন প্ৰাণকেন্দ্ৰস্বৰূপে কেম্ৰিছৰ উদ্ভৱ আৰু প্ৰাণকেন্দ্ৰস্বৰূপে কেম্ৰিছৰ উদ্ভৱ এই যুগৰ বৈশিষ্ট্য লক্ষণ হ'ল চাৰিত পুষ্টিৰ উদ্ভৱ। ঐতিহাসিক পদ্যৰ বিকাশ আৰু বৃহৎ পদ্যৰ আৱিষ্কাৰ

Assignment Submitted by Advanced Learner from Dept of Assamese [Page 2]

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শংকৰদেৱ, হাবৰদেৱ, দামোদৰদেৱ আদিৰ তিৰোঁতৰ শিৰুত
 তেওঁলোকৰ অসুখী পুৰুষস্বৰূপে গণ্য কৰি তেওঁলোকৰ
 শূন্য-পাৰিমাণ প্ৰশ্ন কৰা বৈকল্যৰূপে পৰিগণিত হ'ল।
 পৰিষ্কাৰ কৰি কবিতা লেখাৰ প্ৰথম প্ৰচলিত হ'লে হৈছে। ফলত
 কবিতা মাদ্ৰিত্বই বিভূতি লাভ কৰিবলৈ হৈছে। এই কালচোৱাক
 বৈষ্ণৱ বৈষ্ণৱ প্ৰমাণ আৰু প্ৰতিপত্তিৰ যুগৰ সুলিখ পাৰি।
 কবিতা সাহিত্যৰ উদ্ভৱ অশুদ্ধ প্ৰতিভাৰ দ্বিতীয়, তৃতীয়
 দশকমানত গুলি ধৰিব পাৰি। পদ্য সাহিত্যৰ উদ্ভৱ সোতৰ
 প্ৰতিভাৰ শেষ দশক বা অশুদ্ধ প্ৰতিভাৰ প্ৰাৰম্ভ হ'লি কৰা
 গৰি। কবিতা কবিতা - সাহিত্য উদ্ভৱৰ সময় 20-25
 কালমানৰ অগ্ৰতে পদ্য সাহিত্যৰ উদ্ভৱ হয়। শংকৰদেৱ
 মণিলা মিত্ৰিত অজয়নী তেখেত পদ্যৰ প্ৰথম নিদৰ্শন প্ৰকা
 ৰায় যদিও প্ৰকৃত অজয়ীয়া পদ্য তেওঁদেৱৰ হাততহে স্থাৰ্হ
 হয়। তেওঁদেৱে কামৰূপত কাম - পীতা, কামা - ভাগৱত
 আৰু কাম - বহুলানী ৰচনা কৰিছিল।


৩) বিষয়বস্তু :

শংকৰদেৱৰ যুগতে কবিতা গুৰু, বিশিষ্ট সাহিত্যিক,
 অশুদ্ধ প্ৰতিভাৰ আদিৰ স্থাৰ্হ হৈছিল। এই যুগতে
 প্ৰথম শংকৰদেৱ, হাবৰদেৱ আৰু তেওঁলোকৰ শিষ্য
 মণিলা বৈষ্ণৱ বৈষ্ণৱ কবিতা অমলৰ ফল - ফল
 বিহীন মন অশুদ্ধৰূপে দুখন কৰিছিল। সাহিত্যিক
 কালৰ তিতৰত তেওঁদেৱৰ পদ্য সাহিত্যৰ কেন্দ্ৰ হ'লি

Assignment Submitted by Advanced Learner from Dept of Assamese [Page 3]


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পুৰণি অসম বুৰঞ্জী.
ভ্ৰংছুতীয়া বুৰঞ্জী
দেওবাৰী বুৰঞ্জী
বিদ্যুৎ বুৰঞ্জী
কছাৰী বুৰঞ্জী
অসম বুৰঞ্জী
সাতসৰী অসম বুৰঞ্জী ইত্যাদি।
যদিও অসমীয়া বুৰঞ্জী - সাহিত্যৰ অক্টোবৰ
অতিবাহত প্ৰতিপত্তি লাভ কৰিলে তথাপি দুই-চাৰিখন
মুদ্ৰণ অতিবাহতে লিখন হৈছিল। বাৰুমানী অতন
চ্যামোহাৰে বুৰঞ্জী কৰা 'বাইপতীয়া বুৰঞ্জী', অসম
স্বৰ্গীয়া সিংহৰ 'বাজুলৈকো বৰনা কৰা 'পুৰণি অসম
বুৰঞ্জী', 'স্বৰ্গমুখৰ অসম বুৰঞ্জী' আৰু 'উদ্বাৰ কৰা
স্বৰ্গমুখৰ 'অসম বুৰঞ্জী' অসম বুৰঞ্জী কৰা 'অসম
বুৰঞ্জী' সম্প্ৰদায় অতিবাহতে কটাত হৈছিল।

সামগ্ৰী :
প্ৰকল্পৰ মূৰত অসমীয়া পদ সাহিত্যৰ বাবে
তাৎপৰ্যপূৰ্ণ সুম সুলিখ পাৰে। প্ৰকল্পৰ মূৰত
বিবৰ্তনত বিভিন্ন ধৰণৰ পুস্তিকা-পাতি গীত, নাট,
আদি কৰা অসমীয়া সাহিত্যৰ তালিকা
হৈছিল। অনুবাদ কৰা প্ৰত্যেক নতুন
অসমীয়া কৰা চিন্তা কৰা প্ৰকল্পৰ
মূৰত সাহিত্যৰ অন্ততম স্থান। উল্লেখযোগ্য
যে বাৰুমানীয়া সাহিত্যৰ বিষয়ে অনুপ্ৰবন্ধ

Assignment Submitted by Advanced Learner from Dept of Assamese [Page 4]


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12:38 PM



← Difficulties in the measurement... ⋮



shru Paul
Marked



Rittika Paul.pdf

Private comments



Rofique Ahmed 6 May 2020

The presentation is OK, but you should manage this writing to complete withi 25 minutes in exam hall. Points shouldn't but the explanation should be precise.

[Add comment to shru Paul](#)

Mark

8

/ 10

Return

Online Submission of Assignment and Subsequent Discussion between Advanced Learner and Faculty of Dept of Economics [Page 1]

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The screenshot shows a mobile application interface for a student named RAJESH GOSHAI. At the top, the time is 11:36 AM. The page title is "Home Tutorial 2". Below the title, the student's name "RAJESH GOSHAI" is displayed with a profile icon and the word "Marked". There are four thumbnails of submitted assignments, each titled "Home Tutorial 2 (Jun 30, 2020 ...)". Below the assignments, there is a section for "Private comments" with a comment from "Rofique Ahmed" dated "5 Jul 2020". The comment text is: "Val hoise. Protyektu point r arombhone eta headline/caption dile aru Val hobo. Headline dile porikhyokor saboloi hubidha hoi." Below the comment, there is a section "Add comment to RAJESH GOSHAI" with a "Mark" input field containing "12 / 12" and a "Return" button.

Online Submission of Assignment and Subsequent Discussion between Advanced Learner and Faculty of Dept of Economics [Page 2]


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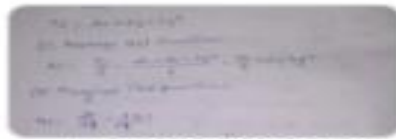
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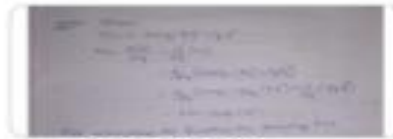
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← Assignment 2



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Private comments



Akash Kaushik Dutta 5 May 2020
Done Sir



Rofique Ahmed 7 May 2020
You have not solved question (i) of question no 1. That is you have not found output when MC is minimum.

Again, you are finding $AC = MC$ just by putting value of output when AC is minimum both in AC and MC functions. But this is not the proper way. What you are to do is to equalise AC and MC and by solving it to find output of this point.



Akash Kaushik Dutta 7 May 2020
Okk sir

Mark

8

/ 10

Return

Online Submission of Assignment and Subsequent Discussion between Advanced Learner and Faculty of Dept of Economics [Page 3]

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The screenshot shows a mobile application interface for a student named Somiksha Dutta. At the top, the time is 11:41 AM. The page title is "Home tutorial 1". Below this, the student's name "Somiksha Dutta" is displayed with a profile icon and the word "Marked". There are four image thumbnails representing submitted assignments, each with a filename: IMG_20200626_14 0423.JPG, IMG_20200626_14 0528.JPG, IMG_20200626_14 0551.JPG, and IMG_20200626_14 0313.jpg. Below the images, there is a section for "Private comments" with two entries: one from Rofique Ahmed dated 28 Jun 2020 saying "Good done. Keep it up.", and one from Somiksha Dutta dated 28 Jun 2020 saying "Tqq sir . 😊". At the bottom, there is a section to "Add comment to Somiksha Dutta" with a "Mark" field containing the number "12" and a "Return" button.

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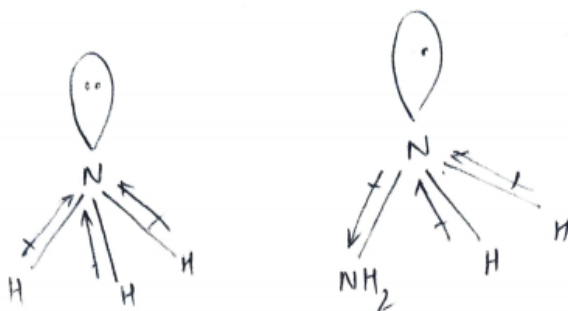
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Assignment 1 : Acids and Bases

Name: Bibek Pegu

Q. Among NH_3 and H_2NNH_2 , which one is more basic?

Ans



In NH_3 , due to presence of three H atoms, electron density is towards the central N atom, thus it's basic.

However $\text{H}_2\text{N}-\text{NH}_2$ has one $-\text{NH}_2$ group attached to the central N atom instead of H atom in NH_3 . Since $-\text{NH}_2$ group is electron withdrawing, so the N atom in $\text{H}_2\text{N}-\text{NH}_2$ has lesser electron density than central N atom in NH_3 . So NH_3 is more basic than $\text{H}_2\text{N}-\text{NH}_2$.

Assignment Submitted by Advanced Learner from Dept of Chemistry [Page 1]


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Q.3 Predict which way the reaction will be favored?



Explain the trend using HSAB principle

Ans Acid-base combination of the reactants, and product

ZnO ; Intermediate acid - Hard base

LiC_4H_9 ; Hard acid - Soft base

$\text{Zn}(\text{C}_4\text{H}_9)_2$; Intermediate acid - Soft base

Li_2O ; Hard acid - Hard base

According to HSAB principle, hard acids prefer to bind to hard bases and soft acids prefer to bind to soft bases.

On the right side of the reaction, Li_2O has hard acid-hard base combination. Thus with accordance to the HSAB principle, the reaction proceeds to the right direction i.e. forward.

Assignment Submitted by Advanced Learner from Dept of Chemistry [Page 2]


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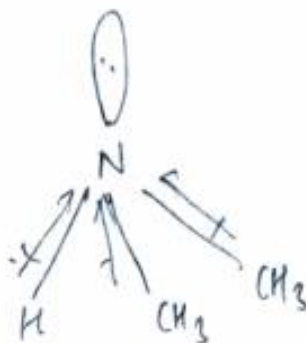

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Q.9 Among NH_3 and HNMe_2 which one is more basic?

Ans



NH_3 has three H atoms which are electron donating in nature but HNMe_2 has one H atom and two $-\text{CH}_3$ groups, and $-\text{CH}_3$ group has more tendency to donate electron pair than H atom. So more electron density in the N atom of HNMe_2 than the N atom of NH_3 , thus HNMe_2 is more basic than NH_3 .

Assignment Submitted by Advanced Learner from Dept of Chemistry [Page 3]



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Q.8 Write four well accepted definitions for acids and bases.

Ans Four well accepted definitions for acids and bases—

(1) Arrhenius' definition:

Acid is a chemical compound that can donate H^+ ion in aqueous solution. Eg— HCl

Base is a chemical compound that can donate OH^- ion in aqueous solution. Eg— NaOH.

(2) Lewis' definition:

Lewis ~~acid~~ ^{base} is a chemical compound that has a pair of electrons that can be donated. Eg— NH_3 .

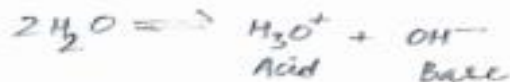
Lewis acid is a chemical compound that has the ability to accept an electron pair.
Eg— BF_3

(3) Brønsted—Lowry definition:

Acids are chemical species that can donate protons.

Bases are chemical species that can accept protons.

Eg—



Assignment Submitted by Advanced Learner from Dept of Chemistry [Page 4]


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ASSIGNMENT

Submitted

By

Sunil Borah

Topic : Measures of Central Tendency

Date : 20.11.21

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Q. What do you mean by measures of central tendency? What are the types of measures of central tendency. Define each of them and also mention their merits and demerits? and uses?

Ans: Measures of central tendency, also known as averages describe the tendency of individual items to cluster or concentrate around the centre in a frequency distribution. The most important object of measures of central tendency is to determine a single representative value for the entire series. They perform the function of giving a concise picture of the entire group and hence they are useful as a basis for comparison with other groups of data.

The types of measures of central tendency are — (i) Arithmetic Mean (A.M) or simply mean (ii) Median (iii) Mode (iv) Geometric Mean (G.M) (v) Harmonic Mean (H.M).

(i) Arithmetic Mean (A.M) or simply mean :

The A.M of a series is obtained by adding the values of the series and dividing by the number of items.

Ungrouped Data :

If x_1, x_2, \dots, x_n are the values of the variable x then A.M denoted by \bar{x} is given by

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$$\bar{x} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{n} = \frac{\sum_{i=1}^n x_i}{n} = \frac{\sum x}{n}$$

Grouped Data :

If x_1, x_2, \dots, x_n are the values of the variable x then A.M. denoted with frequency f_1, f_2, \dots, f_n then

Then

$$\bar{x} = \frac{x_1 f_1 + x_2 f_2 + \dots + x_n f_n}{f_1 + f_2 + \dots + f_n} = \frac{\sum_{i=1}^n x_i f_i}{\sum_{i=1}^n f_i} = \frac{\sum x f}{N}$$

where $N = \sum f$
= Total frequency

Short-cut-method :

ungrouped Data :

$$\bar{x} = A + \frac{\sum d}{n}$$

$d = x - A$
 $A =$ Assumed mean

Grouped Data :

$$\bar{x} = A + \frac{\sum f d}{N} ; d = x - A$$

In case continuous data with equal class intervals

$$\bar{x} = A + \frac{\sum f d'}{N} \times h ; d' = \frac{x - A}{h}$$

$h =$ class width

Merits and Demerits of Arithmetic Mean :

Merits :

(i) It is easy to understand and easy to calculate

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If x_1, x_2, \dots, x_n are the values of x with respective frequencies f_1, f_2, \dots, f_n then,

$$H = \frac{N}{\frac{f_1}{x_1} + \frac{f_2}{x_2} + \dots + \frac{f_n}{x_n}} = \frac{N}{\sum \left(\frac{f_i}{x_i} \right)}$$

Merits and Demerits of HM :

Merits :-

- (1) It is based on all observations.
- (2) It gives largest weight to smaller items.
- (3) It is rigidly defined.
- (4) It is useful in calculating rates.

Demerits :-

- (1) It is not easy to understand and calculate.
- (2) It cannot be calculated if value of any item is zero.

User of Different Measures of Central Tendency :

AM : It is the most important, widely used and best measure of central tendency. In the determination of average income, average price, average cost of production, average sales etc. i.e. those phenomenon which are capable of direct quantitative measurement, AM is the most appropriate measure.

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Median : Median is most useful average in case of open and classes frequency distribution. To find the average of qualitative data median is the most suitable one.

Mode : Mode is mostly used in business and commerce. Meteorological forecasts are based on mode.

GM : GM is the most useful when smaller items are to be given importance. They are used in the construction of Index Numbers. GM is the best in cases where ratios, percentages, etc. are considered.

HM : HM is specially useful in averaging rates and ratios where time is variable and distance is constant.

Handwritten notes in red ink:
20/11/2021
20/11/2021

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ASSIGNMENT

submitted

By

Najiha Yassmin

TOPIC : MEASURES OF DISPERSION

Date: 8.11.21

Assignment Submitted by Advanced Learner from Dept of Statistics [Page 1]

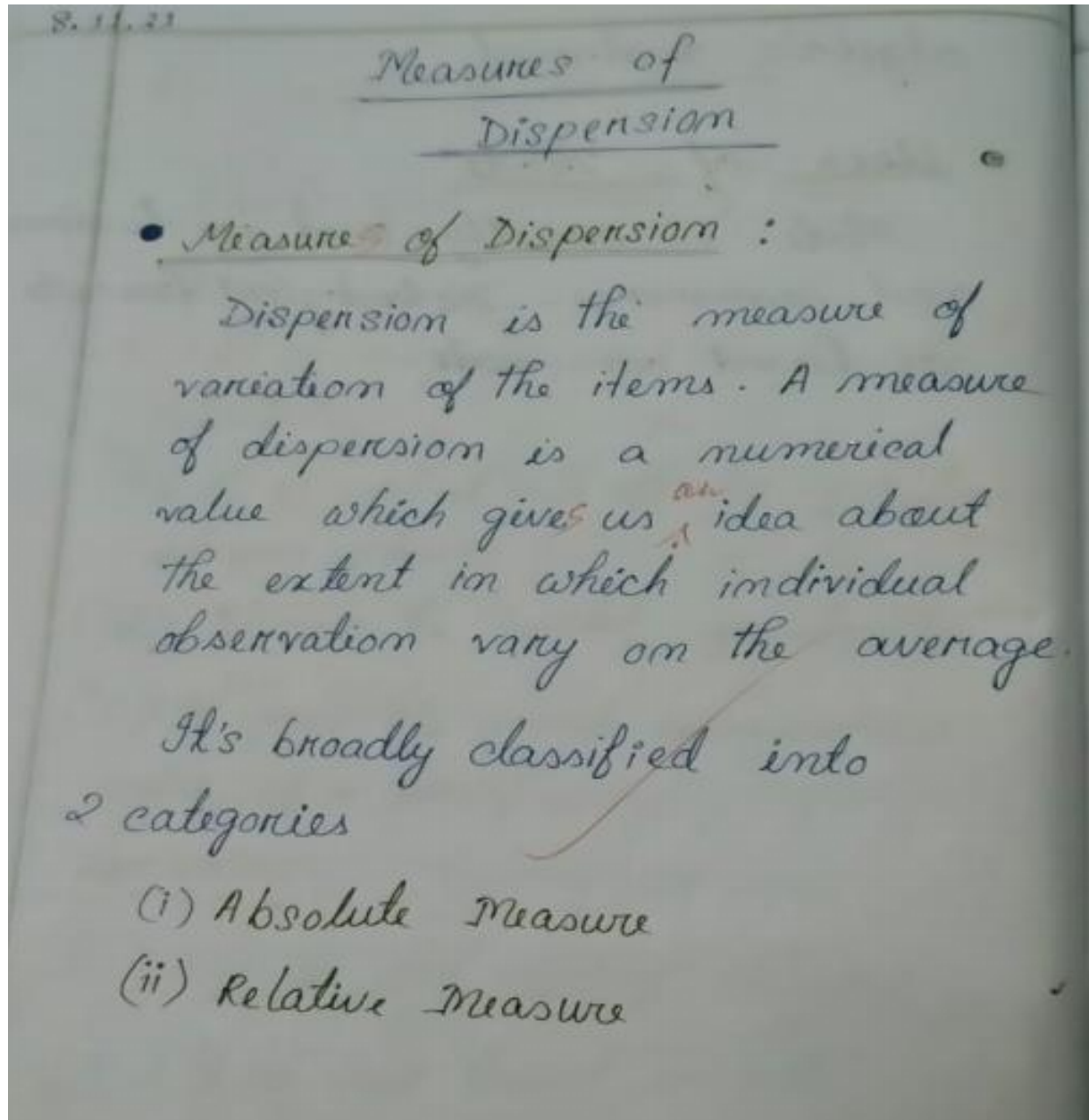

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(1) Absolute measures :

These are expressed in the same statistical unit ~~unit~~ in which original ~~of~~ data is expressed, such as rupees, grams, metres etc.
They can be used for comparison only.

(2) Relative measure : It is the ratio of a measure of absolute dispersion to an appropriate average. It's also called as ~~a~~ coefficient of dispersion.

Some absolute measures of dispersion

(i) Range (ii) Quartile Deviation (QD)
or Semi-interquartile range

Assignment Submitted by Advanced Learner from Dept of Statistics [Page 3]



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- (iii) Mean deviation (MD)
(iv) Standard deviation (SD)
- Characteristics of an Ideal

Measure of Dispersion

- (1) It should be rigidly defined
- (2) It should be easy to calculate and easy to understand
- (3) It should be based on all the observation of the series.
- (4) It should be capable of further mathematical treatment.
- (5) It should be least effected by the fluctuation of sampling.

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(ii) Quartile Deviation

It is defined as half of the difference between the lower and upper quartile. It's also called semi inter quartile range.

Mathematically,

$$Q.D = \frac{1}{2} (Q_3 - Q_1)$$

$$\text{co-efficient of } Q.D = \frac{Q_3 - Q_1}{Q_3 + Q_1}$$

Merits and Demerits of Q.D.

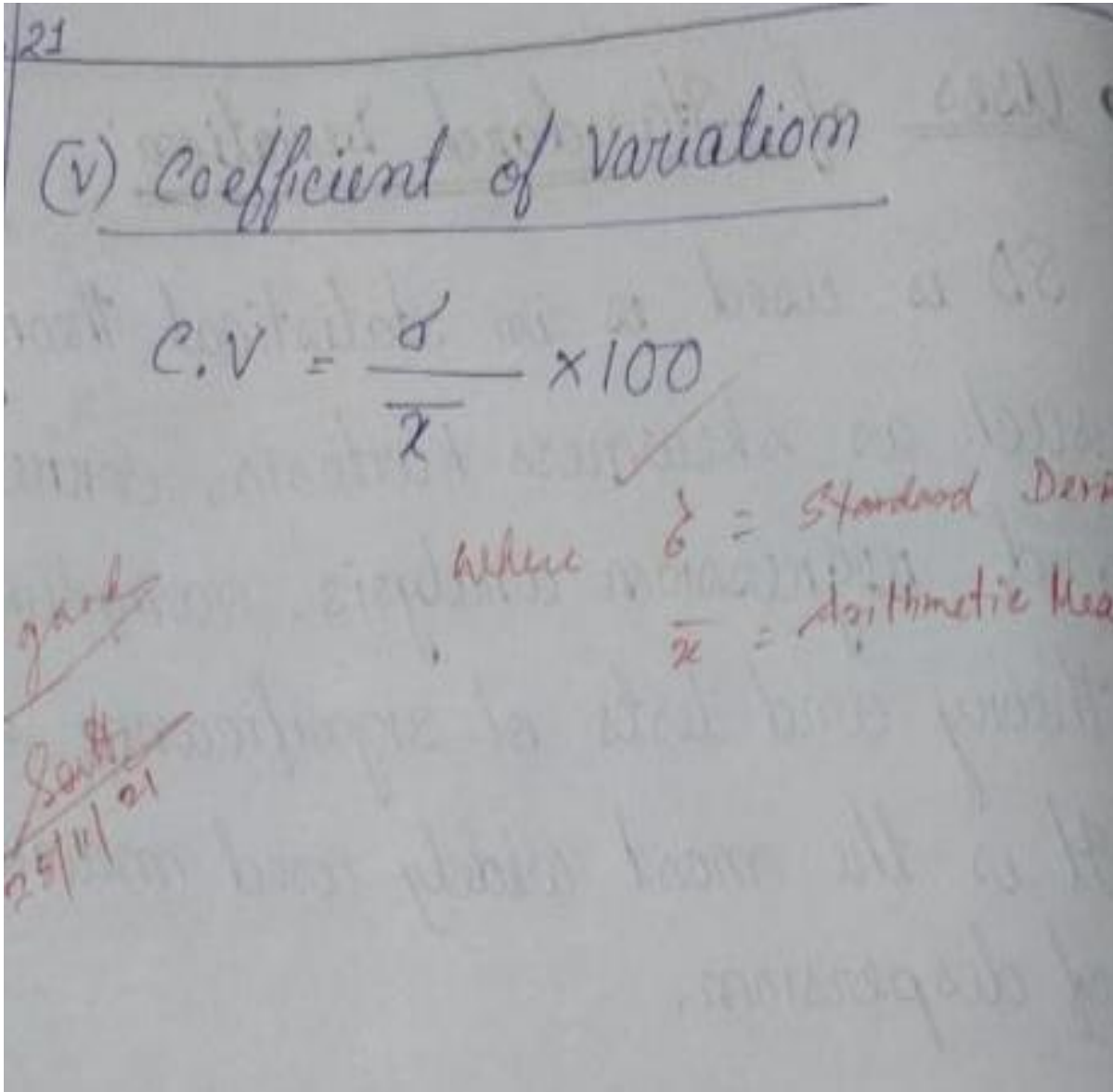
Merits:

- (i) It is easy to understand and calculate.
- (ii) It is not affected by extreme values.
- (iii) It is rigidly defined.

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ASSIGNMENT


on

Order of Class Mammalia



Submitted to
Zoology Department
Bahona College

Submitted by
Udipta Saikia
Luckymoni Borah


Head
Dept. of Zoology
Bahona College

Assignment Submitted by Advanced Learner from Dept of Zoology [Page 1]


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The Class Mammalia includes about 5000 species placed in 26 orders. Systematists do not yet agree on the exact number or on how some orders and families are related to others. The Animal Diversity Web generally follows the arrangement used by Wilson and Reeder (2005).

All mammals share at least three characteristics not found in other animals. These are-

- i) Three middle ear bones,
- ii) Hair,
- iii) Production of milk by modified sweat glands called mammary glands.

The Mammalia is divided into two subclasses; Prototheria and Theria.

Prototheria is a subclass to which the orders Monotremata, Morganucodonta, Docodonta, Triconodonta and Multituberculata have been assigned, although the validity of the subclass has been questioned. Most of the animals in this group are extinct.

Theria is a subclass of Mammalia. It includes almost all living mammals: the ones that give birth to live young, and not by using a shelled egg.

Theria is basically divided into three infraclasses. These are-

- i) Pantothetia, (which is extinct)
- ii) Metatheria,
- iii) Eutheria.

The surviving Metatheria are the marsupials, and the Eutheria are the placental mammal.

Now, the order that we have selected for the class Mammalia are; Lagomorpha and Primate.

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Lagomorpha

The lagomorphs are the members of the taxonomic order Lagomorpha, of which there are two living families, the Leporidae (hares and rabbits) and the Ochotonidae (pikas). The name of the order is derived from the Ancient Greek. There are 110 recent species of lagomorph of which 109 are extant, including 34 species of pika, 42 species of rabbit, and 33 species of hare.

Characteristics

Lagomorphs are similar to other mammals in that they all have hair, four limbs (i.e., they are tetrapods) and mammary glands and are endotherms. Lagomorphs possess a moderately fused postorbital process to the cranium, unlike other small mammals. They differ in that they have a mixture of "basal" and "derived" physical traits.

Scientific classification	
Kingdom:	Animalia
Phylum:	Chordata
Class:	Mammalia
Magnorder:	Eurotheria
Superorder:	Euarchontoglires
Clade:	Glires
Clade:	Gires
Order:	Lagomorpha

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Difference between lagomorphs and other mammals

Despite the evolutionary relationship between lagomorphs and rodents, the two orders have some major differences: primarily, lagomorphs have four incisors in the upper jaw, whereas rodents (Rodentia) only have two. Also, lagomorphs are almost strictly herbivores, unlike rodents, many of which will eat both meat and vegetable matter. They are similar to rodents in that their incisor teeth grow continuously throughout their lives, thus necessitating constant chewing on fibrous food to prevent the teeth from growing too long.

Lagomorphs have no paw pads, instead the bottoms of their paws are entirely covered with fur.

Similarly to the rodents, bats and some mammalian insectivores they have a smooth surface cerebrum.

Now moving forward towards its example.

Rabbit (*Oryctolagus cuniculus*)

Rabbits have long ears, a short tail, long hind legs, and continuously growing incisors. Most species are gray or brown and range in size from 10 to 18 in. (25 to 45 cm) long and 1 to 4 lb (0.5 to 2 kg). They feed primarily on grasses. Their reproductive rate is very high; unlike hares, rabbits are born blind, hairless, and helpless. Most species are nocturnal and live alone in burrows. However, the European, or Old World, rabbit (*Oryctolagus cuniculus*; of Europe and Asia) lives in warrens consisting of many burrows; this species is the ancestor to all domestic breeds. The 13 North American species called cottontails (genus *Sylvilagus*) have white on the underside of the tail.

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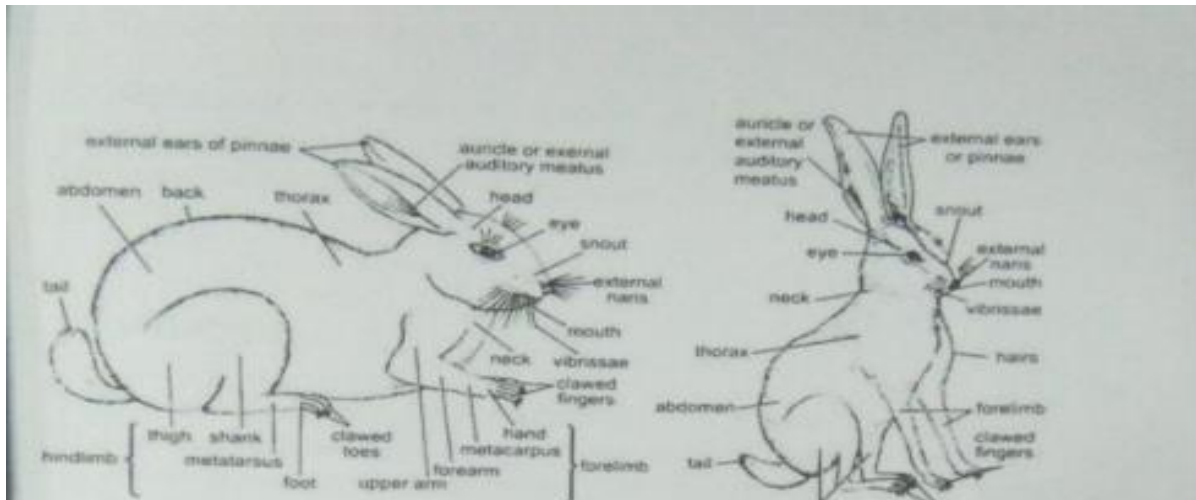


Fig. 29.2. Rabbit. External features in side view.

Fig. 29.3. Hare. External features.

Some facts about rabbits

- 1) A baby rabbit is called a kit, a female is called a doe and a male is called a buck.
- 2) Rabbits are very social creatures that live in groups. They live in warrens — a series of tunnels and rooms that they dig underground.
- 3) Rabbits' eyes are on the sides of their head, meaning they can see almost all the way around them. This helps them to keep a close watch for predators.

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4) Rabbits are amazing athletes — they can jump as high as 90 centimetres in one leap!

5) Rabbits are very effective baby-makers! Mother rabbits are pregnant for between 28-31 days, giving birth to up to 14 baby rabbits — called kittens — in a single litter. There are over 45 million rabbits in the UK alone!

Primate

Primate, in zoology, any mammal of the group that includes the lemurs, lorises, tarsiers, monkeys, apes, and humans. The order Primates, including more than 500 species, is the third most diverse order of mammals.

Although there are some notable variations between some primate groups, they share several anatomic and functional characteristics reflective of their common ancestry. When compared with body weight, the primate brain is larger than that of other terrestrial mammals, and it has a fissure unique to primates (the Calcarine sulcus) that separates the first and second visual areas on each side of the brain. Whereas all other mammals have claws or hooves on their digits, only primates have flat nails. Some primates do have claws, but even among these there is a flat nail on the big toe (hallux). In all primates except humans, the hallux diverges from the other toes and together with them forms a pincer capable of grasping objects such as branches. Not all primates have similarly dextrous hands; only the catarrhines (Old World monkeys, apes, and humans) and a few of the lemurs and lorises have an opposable thumb. Primates are not alone in having grasping feet, but as these occur in many other arboreal mammals (e.g., squirrels and opossums), and as most present-day primates are arboreal, this characteristic suggests that they evolved from

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an ancestor that was arboreal. So too does primates' possession of specialized nerve endings (Meissner's corpuscles) in the hands and feet that increase tactile sensitivity. As far as is known, no other placental mammal has them. Primates possess dermatoglyphics (the skin ridges responsible for fingerprints), but so do many other arboreal mammals.

Scientific classification

Kingdom:	Animalia
Phylum:	Chordata
Class:	Mammalia
Clade:	Pan-Primates
Order:	Primates

The eyes face forward in all primates so that the eyes' visual fields overlap. Again, this feature is not by any means restricted to primates, but it is a general feature seen among predators. It has been proposed, therefore, that the ancestor of the primates was a predator, perhaps insectivorous. The optic fibres in almost all mammals cross over (decussate) so that signals from one eye are interpreted on the opposite side of the brain, but, in some primate species, up to 40 percent of the nerve fibres do not cross over.

Primate teeth are distinguishable from those of other mammals by the low, rounded form of the molar and premolar cusps, which contrast with the high, pointed cusps or elaborate ridges of other placental mammals. This distinction makes fossilized primate teeth easy to recognize.

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Classifications of Primate

```
graph TD
    Primates --> Prosimii["Prosimii (prosimians)"]
    Primates --> Anthropoidea["Anthropoidea (anthropoids)"]
    Prosimii --> Lemuriformes
    Prosimii --> Tarsiiformes["Tarsiiformes (tarsiers)"]
    Lemuriformes --> Lemuroidea["Lemuroidea (lemurs)"]
    Lemuriformes --> Lorisoidea["Lorisoidea (lorises)"]
    Anthropoidea --> Platyrrhini["Platyrrhini (New World anthropoids)"]
    Anthropoidea --> Catarrhini["Catarrhini (Old World anthropoids)"]
    Platyrrhini --> Ceboidea["Ceboidea (New World monkeys)"]
    Catarrhini --> Cercopithecoidea["Cercopithecoidea (Old World monkeys)"]
    Catarrhini --> Hominoidea["Hominoidea (apes and humans)"]
```

A primate is any mammal of the group that includes lemurs, lorises, tarsiers, monkeys, apes and humans. Let us take tarsiers as our topic.

Tarsier (*Tarsiidae*)

Tarsiers are haplorrhine primates of the family Tarsiidae, which is itself the lone extant family within the infraorder Tarsiiformes. Although the group was once more widespread, all of its species living today are found in the islands of Southeast Asia, specifically the Philippines, Malaysia, Indonesia, and Brunei.

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They are found primarily in forested habitats, especially forests that have liana, since the vine gives tarsiers vertical support when climbing trees.

Tarsiers are intermediate in form between lemurs and monkeys, measuring only about 9–16 cm (3.5–6 inches) long, excluding a tail of about twice that length. Tarsiers are lemurlike in being nocturnal and having a well-developed sense of smell. However, like monkeys, apes, and humans, they have a nose that is dry and hair-covered, not moist and bald as is that of lemurs. The eyes and placenta are also simiiform in structure.

The tarsier's small brain has an enormous visual cortex to process information from the large goggling eyes, the animal's most striking feature. The size of the eyes and visual cortex is probably made necessary by the absence of a reflective layer (tapetum) that the eyes of most other nocturnal mammals possess. The tarsier is also unusual in having especially long ankle bones (tarsals, hence the name tarsier), a short body, and a round head that can be rotated 180°. The face is short, with large, membranous ears that are almost constantly in motion. The fur is thick, silky, and coloured grey to dark brown. The tail is scaly on the underside like a rat's; in most species it has an edging or terminal brush of hair.

Assignment Submitted by Advanced Learner from Dept of Zoology [Page 9]


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Tarsiers are the only entirely carnivorous primates, preying on insects, lizards, and snakes. Clinging upright to trees, they press the tail against the trunk for support. Their grip is also aided by the tips of their digits, which are expanded into disklike adhesive pads. Tarsiers move through the forest by launching themselves from trunk to trunk propelled by their greatly elongated hind limbs.



Adults live in monogamous pairs and keep in contact vocally during the night, defending territory against other pairs using extremely high-pitched calls. On the island of Celebes (Sulawesi) these calls are duets—different but complementary calls made by the male and female. Single young are born in a fairly well-developed state, furred and with eyes open, after a gestation of perhaps six months.

Assignment Submitted by Advanced Learner from Dept of Zoology[Page 10]


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12:25 PM

← Home tutorial 1


Marked

Home tutorial 1 (26 Jun 2020 2...)

Home tutorial 1 (26 Jun 2020 2...)

Home tutorial 1 (26 Jun 2020 2...)

Private comments

 **Rofique Ahmed** 28 Jun 2020
Better to explain in terms of four markets. Here emphasis goes to Say's laws of market.

Add comment to

Mark 7 / 12

Return

Online Submission of Assignment and Subsequent Discussion between Slow Learner and Faculty of Dept of Economics [Page 1]


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12:37 PM



← Relationship between national... ⋮

< [Redacted] >
Marked



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05-06-2020 15.3...



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Private comments



Rofique Ahmed 6 May 2020
হাতেৰে লিখা original copy upload
কৰিলেহে বিবেচনা কৰা হব।

Difficulties in the measurement of
national income - এইটো এটা বেলেগে
এচাইনমেণ্ট। ইয়াত আকৌ কেনেকৈ
সোমালে?



Rofique Ahmed 10 May 2020
আক বহুত কথা থাকি গ'ল।

Add comment to [Redacted]

Mark

4

/ 10

Return

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12:09 PM


← Impact of green revolution on... ⋮

 **Marked** >



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Private comments

 **Rofique Ahmed** 5 May 2020
মোটামুটি ঠিকেই আছে। অৱশ্যে ইতিবাচক
পৰিণামৰ point কেইটা অলপ বহলাই
লিখিব লাগিছিল।

 **[Redacted Name]** 5 May 2020
Exam r babe thik korim sir

Mark / 10

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12:04 PM



← Comparative study between I... ⋮



Marked



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Private comments



Rofique Ahmed 6 May 2020

চিত্ৰসহ ব্যাখ্যাৰ প্ৰয়োজন নাই। প্ৰথমে শ্ৰম
প্ৰৱৰ আৰু মূলধন প্ৰৱৰ কৌশল কি সেই
সম্পৰ্কে চমুকৈ লিখি উন্নয়নশীল দেশৰ
প্ৰসংগত তুলনা কৰি লিখিব লাগিব। ২৭
মাৰ্চত ৱাটচ এপত পঠোৱা অডিঅ ৰেকৰ্ডিং
টো শুনিবা। মোৰ কিতাপৰ ২৭২ পৃষ্ঠাত এই
বিষয়ে আলোচনা আছে।

Add comment to [Redacted]

Mark

5

/ 10

Return

Online Submission of Assignment and Subsequent Discussion between Slow Learner and Faculty of
Dept of Economics [Page 4]


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12:16 PM

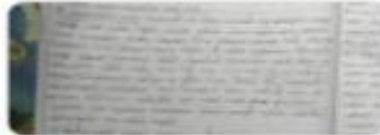


← Role of NGOs in rural economi... ⋮

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Private comments



Rofique Ahmed 5 May 2020

সদায় ছুটিকৈ হলেও conclusion এটা
লিখিবা।

Add comment to 

Mark

7

/ 10

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Online Submission of Assignment and Subsequent Discussion between Slow Learner and Faculty
of Dept of Economics [Page 5]


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12:23 PM

← Home Tutorial 2

Marked


New Doc
2020-06-30 19.3...

Private comments

 **Rofique Ahmed** 2 Jul 2020
Answer of the next part is not to the point. I discussed this topic in 12 points in Google classroom.

Add comment to

Mark / 12

Online Submission of Assignment and Subsequent Discussion between Slow Learner and Faculty of Dept of Economics [Page 6]


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গবেষণা পত্ৰ
জাহ্নবা বঙ্গাব্দৰ এক বিদ্বত
অন্তিম
শ্ৰী প্ৰকল্পটো অন্তত
কৰোতাংকল

১. দ্বিপশিখা স্বাক্ষৰীক্স
২. স্বীতা ভাঙ্গুলী
৩. প্ৰনাগী বৰা
৪. অনিন্দিতা পাতিৰ
৫. পলি অৰ্থকায়া

তৃতীয় স্বাপ্নাপিক
অপ্সীয়া-বিভাগ,
২০২১

Project Report by Students of Dept of Assamese [Page 1]


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সূচীপত্র

- ১.০০ আমৰঙাৰি
- ২.০০ অৰ্ণয়নৰ উদ্দেশ্য
- ৩.০০ অৰ্ণয়নৰ সমল
- ৪.০০ বিহুত অৰ্ণয়ন
- ৫.০০ আমৰঙাৰি
- ৬.০০ প্ৰমাণপুথি

Project Report by Students of Dept of Assamese [Page 2]


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1.00

ভাষাবিজ্ঞান

ভাষাৰ মাত্ৰি ঠাৱত ভাষাতত্ত্ব জমা কৰা হয়।
 ভাষাতত্ত্বৰ জৰ্জ সুশীলনাৰ্থে ভাষাতত্ত্বৰ ভাষাবিজ্ঞানী
 সকলে মত কৰিছে। প্ৰতিষ্ঠিত ভাষাতত্ত্ব জমা
 আছে। ভাষাতত্ত্বৰ প্ৰতিষ্ঠিত ভাষাতত্ত্বৰ জৰ্জ
 কিছুমান ভাষাৰ পৰিষ্কাৰ হৈছে আৰু কিছুমান
 ভাষা চিহ্নিতৰ বাবে ভাষা পৰিষ্কাৰ। প্ৰতিষ্ঠিত
 ভাষাতত্ত্বৰ জমা আছে ভাষাৰ পৰিষ্কাৰ
 ভাষাৰ সুশীলনাৰ্থে ভাষাতত্ত্বৰ জমা
 কৰিব পৰা নাই, সেয়ে ভাষাতত্ত্বৰ
 সুশীলনাৰ্থে ভাষাতত্ত্বৰ বাবে ভাষাবিজ্ঞানীসকলে
 ভাষাতত্ত্ব পৰিষ্কাৰ কৰি আহিছে। বহু-চিত্ৰ-
 চৰ্চাৰ ফলত ভাষাতত্ত্বৰ কিছুমান
 ভাষাতত্ত্ব হৈছে মতিভাষাতত্ত্বৰ
 পৰিষ্কাৰে বিজ্ঞানসন্মত পুৰি
 ভাষাতত্ত্বৰ হৈছে ভাষাতত্ত্বৰ
 ভাষাতত্ত্বৰ পৰিষ্কাৰ হৈছে ভাষাতত্ত্বৰ
 ভাষাতত্ত্বৰ পৰিষ্কাৰ হৈছে ভাষাতত্ত্বৰ
 ভাষাতত্ত্বৰ পৰিষ্কাৰ হৈছে ভাষাতত্ত্বৰ
 ভাষাতত্ত্বৰ পৰিষ্কাৰ হৈছে ভাষাতত্ত্বৰ

①

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১.০০ বিদ্যুত অৰ্থস্থান :

মিহেতু হেমাচিলাৰ্ছ ক্ৰেতিম্বা ক্ৰৌণোমিক দিশৰ পৰা, ক্ৰেতিম্বা পৰিস্ফলৰ দিশৰ পৰা আৰু ক্ৰেতিম্বা আকৃতিৰ দিশৰ পৰা জ্ঞানী বিভাজন কৰি পৰিস্ফলৰ কবিতাৰে বন্ধ কৰা হৈছে গতিকে এনেদৰে হোমৰ জ্ঞানীবিভাজন কৰা সজিস্থাৰ্থে 'হোমৰ বৰ্ণনিকৰণ' বুলি কোৱা হয়, হোমবিজ্ঞানীসকলে হোমৰ বৰ্ণনিকৰণ বহুতে ভিন্ন ভিন্ন পদ্ধতিৰেই অনুসৰণ কৰিবলৈ যত্ন কৰিছে -

- ① আকৃতিমূলক বা অণতক্ৰমমূলক
- ② ঐতিহাসিক বা কালানুগত
- ③ ক্ৰৌণোমিক অৰ্থস্থান অনুসৰি -

① অমহাৰ্শীম্বৰ ভিত্তিত - এহিম্বৰ হোম
 ইৰ্শীম্বৰ হোম, আক্ৰোম্বিকাৰ হোম ইত্যাদি,
 ② অৰ্শীম্বৰ ভিত্তিত - চীমা হোম, আবতৰ হোম
 ঐশ্বৰ্য্যভিত্তিত ভিত্তিতসকলৰ বিভাজনৰ ভিত্তিত আকৃতি-মূলক আৰু ঐতিহাসিক বৰ্ণনিকৰণে বিজ্ঞানসন্মত বুলি কৈছে। বৰা হৈছে। তদনন্তৰে ক্ৰৌণোমিক অৰ্থস্থান অনুসৰি বৰা বিভাজনৰে বিজ্ঞানসন্মত বুলি বৰা নহয়। আৰু অৰ্শী বৰ্ণনিকৰণ বৰা হোমৰে বুলি হোমবিজ্ঞানী সকলে চাইব কৰিছে।

ভিত্তিতবিধ বৰ্ণনিকৰণৰ বিষয়ে ভিন্ন ভিন্ন চমুৰ্ত্তি
 আয়োচনা কৰা হৈছে -



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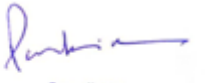
আকৃতিস্থলক বৰ্ণনিকা বা অসংস্কৃতস্থলক বৰ্ণনিকাঃ

প্ৰকৃতিৰে কল্পিত হোৱা অসংস্কৃত স্থলক আকৃতি
 - আৰু আকৃতি বৰ্ণনিকা হৈছে, 'অপ' 'বচনা', 'বাক্য'
 - বা 'গঠন' আদিয়ে 'নিৰ্দেশ' প্ৰদৰ্শন কৰি
 হেৰিওৱা পোৱা যায়। এওঁৰ কাৰে হোৱা আকৃতি
 বা গঠনৰ নিৰ্দেশ প্ৰদৰ্শন কৰি হোৱা
 স্থলক প্ৰকৃতি স্থলক আকৃতি হ'ব।
 এওঁৰে হোৱা গঠনৰ 'কৈশিক' 'গেৰু' 'কিষ্টি'
 কৰি স্থলক আকৃতি বা বৰ্ণনিকা বহু অক্ষয়
 - 'কৈ' আকৃতিস্থলক বৰ্ণনিকা বা অসংস্কৃত
 স্থলক বৰ্ণনিকা হোৱে। হোৱা গঠন
 স্থলক আকৃতি হোৱা হোৱা হোৱা হোৱা,
 'অপ', 'অৰ্থ' আৰু 'বাক্য' প্ৰদৰ্শন কৰি
 হোৱা আকৃতিস্থলক বৰ্ণনিকা হোৱে হোৱে
 হোৱা হোৱা হোৱা হোৱা হোৱা -
 'সোণা' - 'অসংস্কৃত', 'অক্ষয়' - 'বিকল্পিত',
 'গঠন' - 'বিকল্পিত' আদি। আকৃতিস্থলক বৰ্ণনিকা
 স্থলক - 'কিষ্টি' হোৱা হোৱে বৰ্ণনিকা
 কৰি হোৱা হোৱে এখন আনিকা প্ৰদৰ্শন
 হোৱা হোৱে

Project Report by Students of Dept of Assamese [Page 6]


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DEPARTMENTAL SEMINAR ON

“CRYSTAL FIELD SPLITTING IN OCTAHEDRAL COMPLEX”

PRESENTED BY-

NAME:- DHRUBAJYOTI SAIKIA

B.Sc. 5th SEMESTER, 2021

ROLL NO: 25

DEPARTMENT OF CHEMISTRY

BAHONA COLLEGE,

DATE: 27/11/2021

Seminar Paper by Student of Dept of Chemistry


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**AN INTRODUCTION TO DISCONNECTION APPROACH
THROUGH IMAGINARY BOND CLEAVAGE**

PRESENTED BY
-SOURABH BORAH
BSC 5TH SEMESTER
ROLL NO -24
BAHONA COLLEGE,
JORHAT
YEAR-2021

27/11/2021

-1

Seminar Paper by Student of Dept of Chemistry


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Prodip Borah.

Roll no : 01.

B.Sc. 5th sem.

Year : 2021-22

Date : 27/11/2021

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অৰ্থনৈতিক প্ৰেক্ষাপট



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সমস্যা আৰু সম্ভাৱনা



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প্রস্তুতকৰ্তা : শ্রীমতী হিমাশ্রী গগৈ

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মাজৰ জীৱন নিৰ্বাহৰ মানৰ পৰ্থক্য



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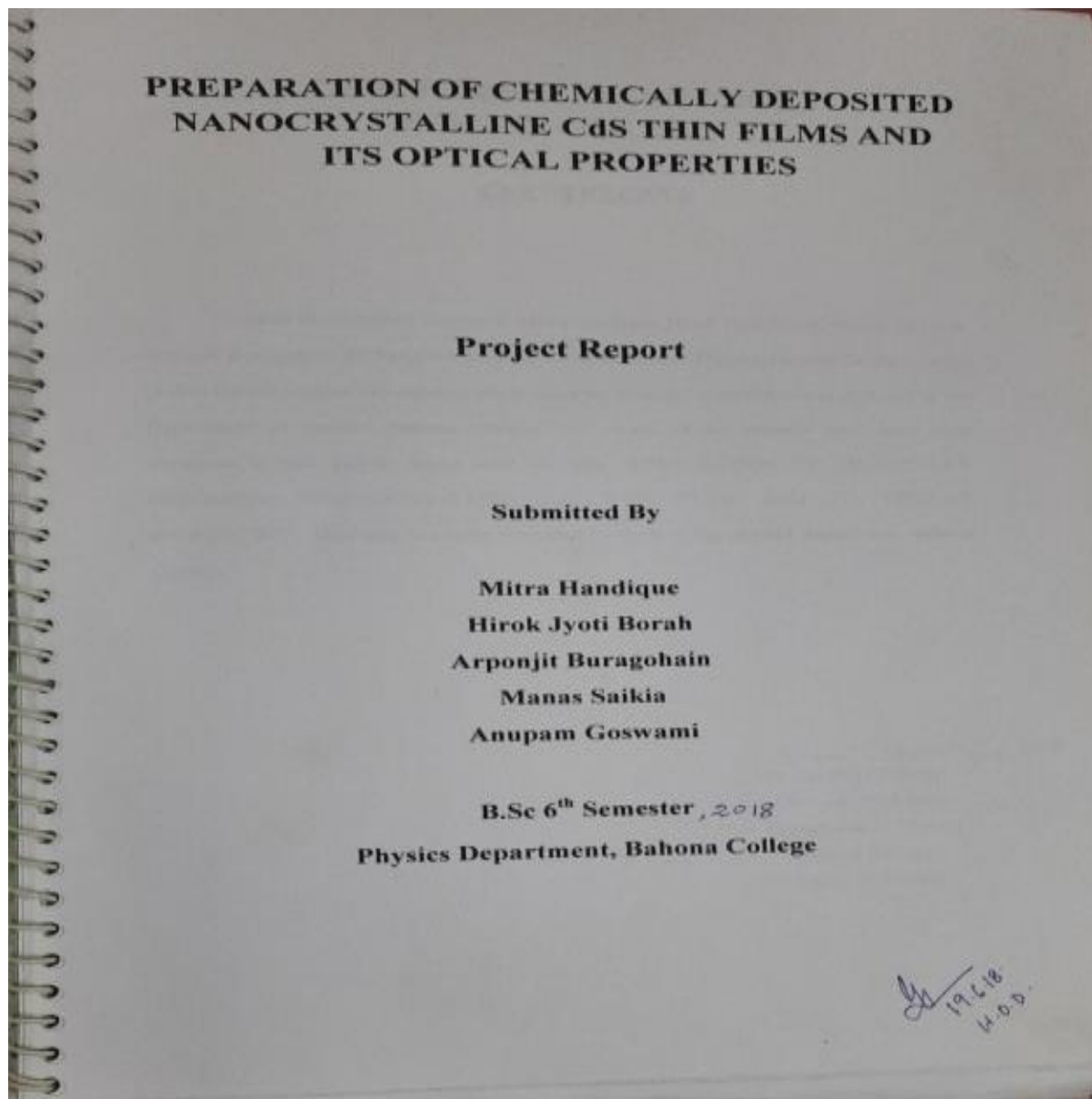


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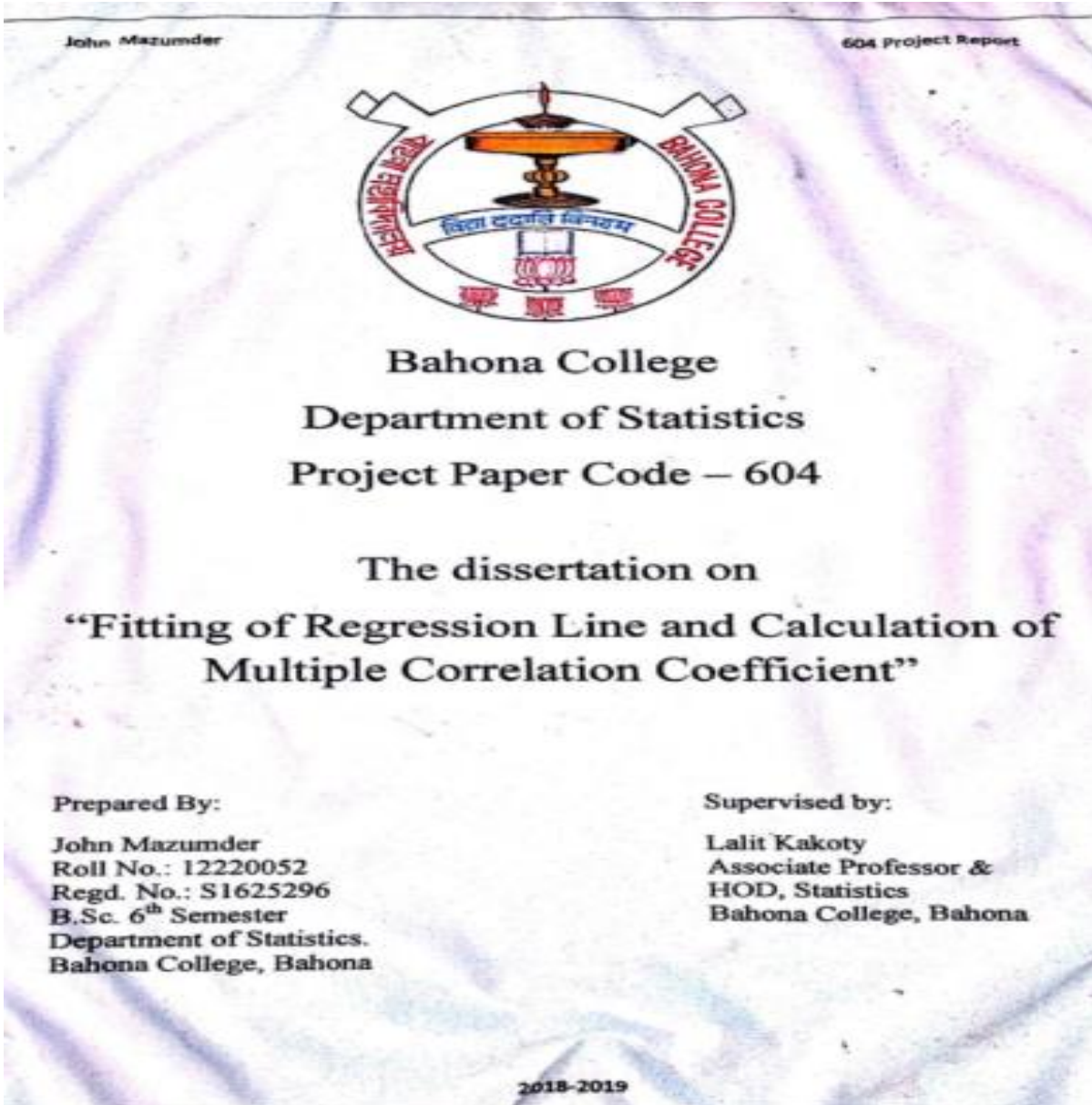



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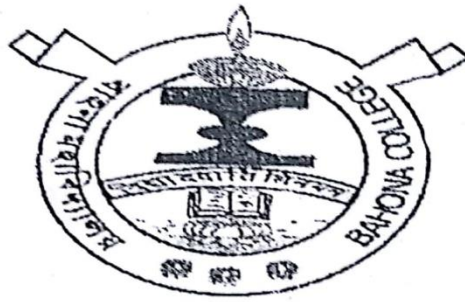
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**A STUDY ON SEX DISTINCTION IN CASE OF
EMPLOYMENT IN NOPOMUA GAON OF
JORHAT DISTRICT**



**Prepared By
Sri Monoj Borah
B.Sc. 6th Sem.**

**Department of Statistics
Bahona College
2017**

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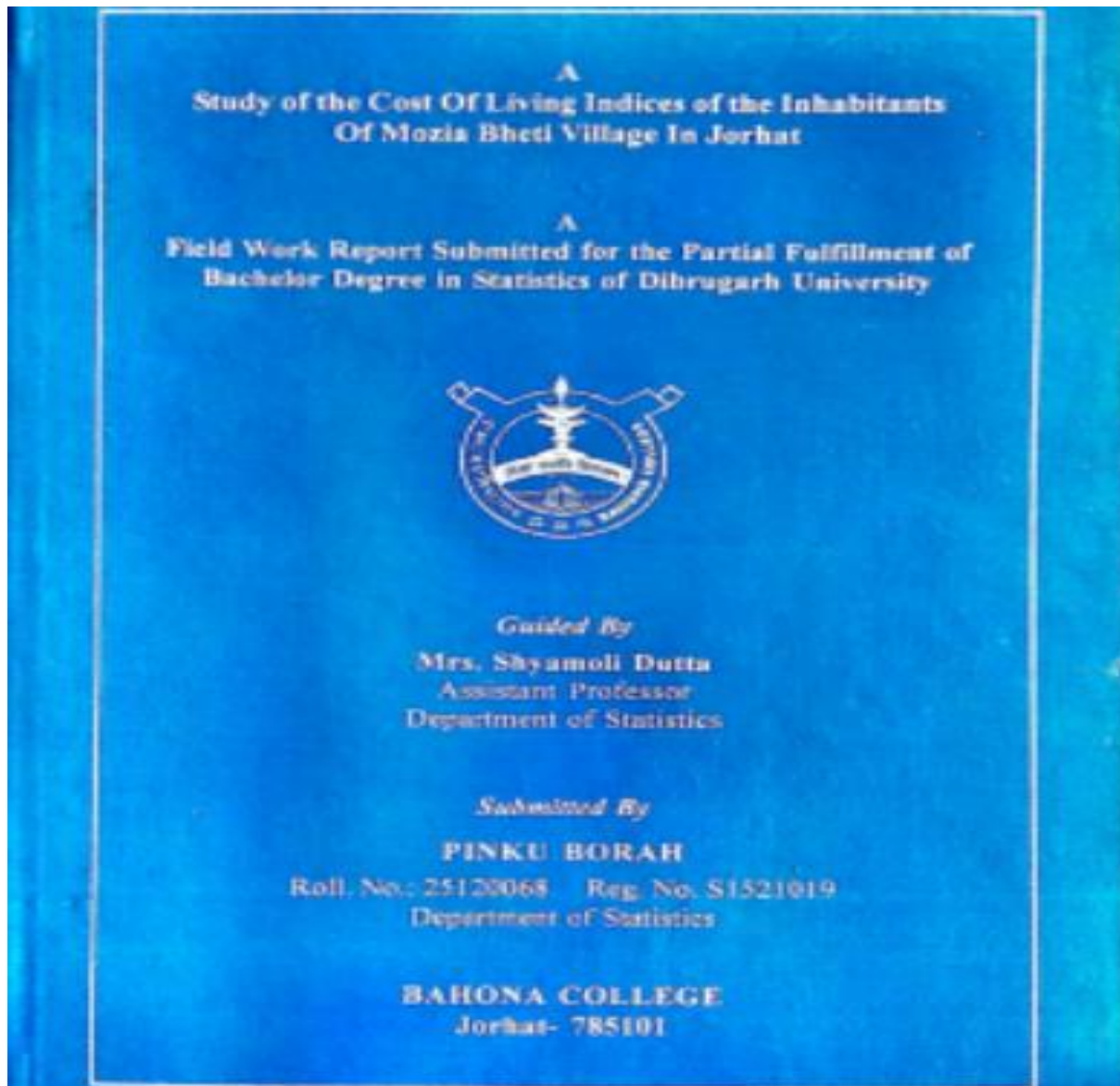



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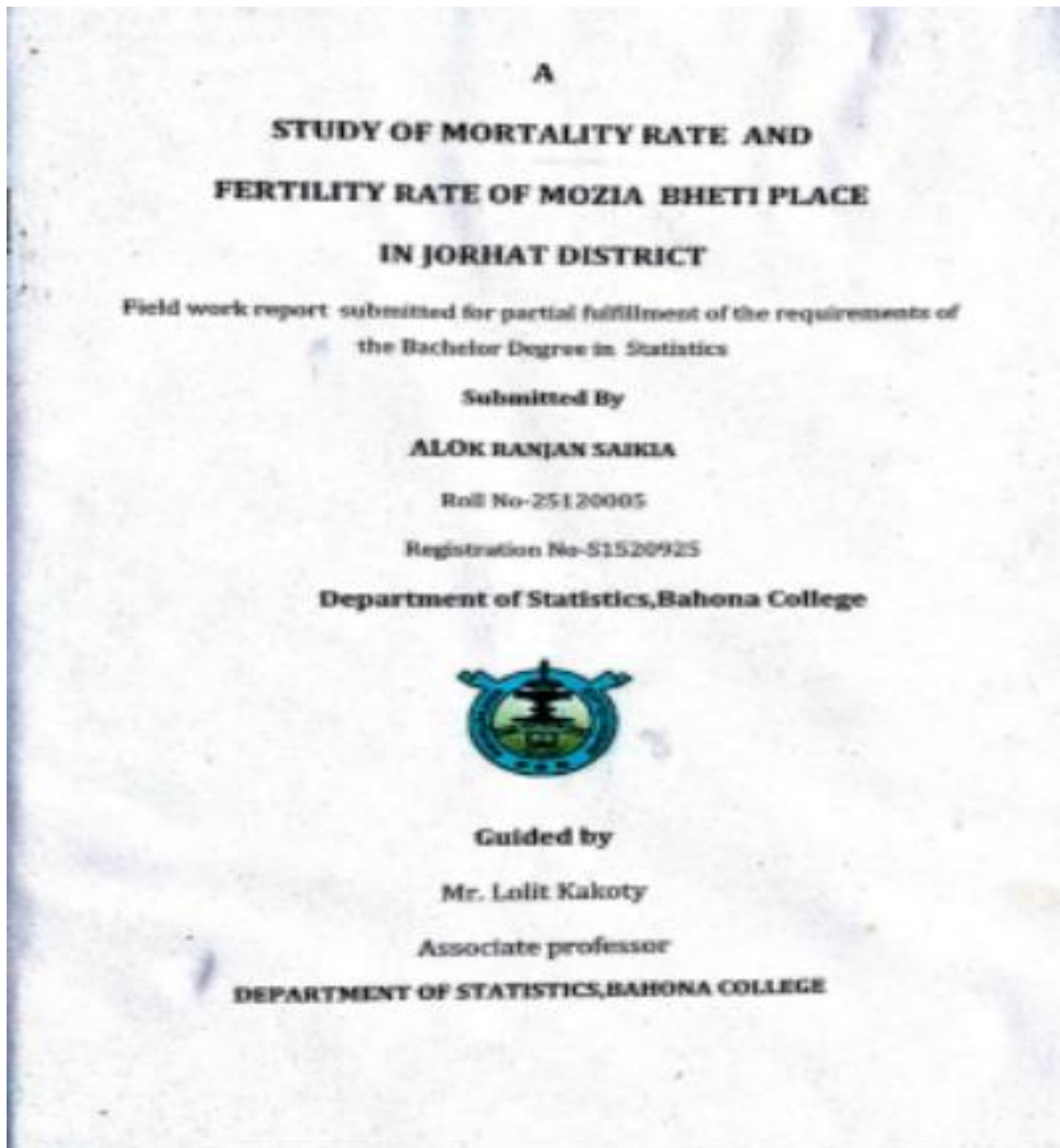



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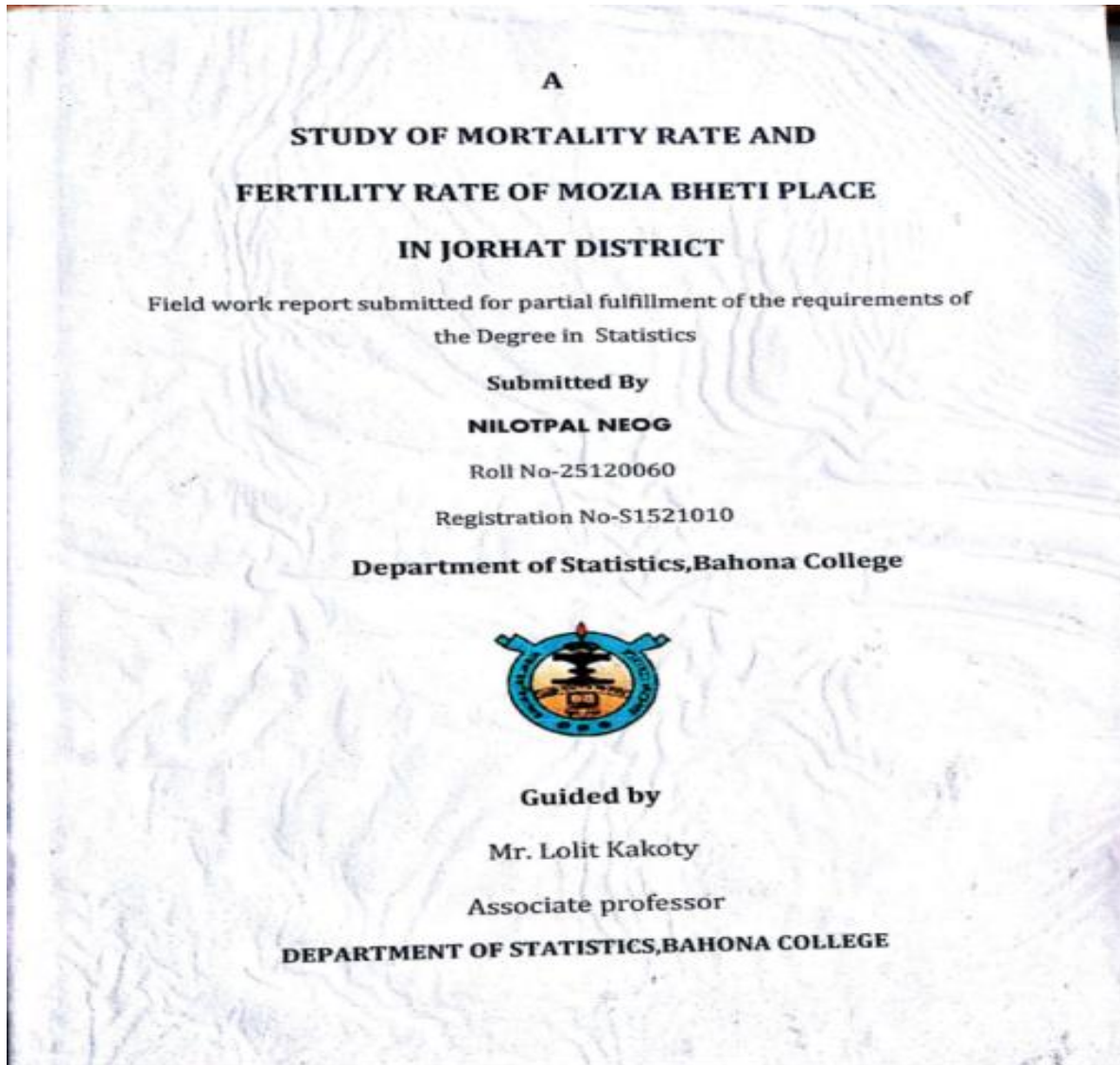



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A

**Study of the Cost Of Living Indices of the Inhabitants
of Mozia Bheti Village In Jorhat**

A

**Field Work Report Submitted for the Partial Fulfillment of Bachelor Degree in Statistics of
Dibrugarh University**



Guided By

Mrs. Shyamoli Dutta
Assistant Professor
Department of Statistics

Submitted By

JOSEPH PATIR

Roll. No.: 25120043 Reg. No. S1520781

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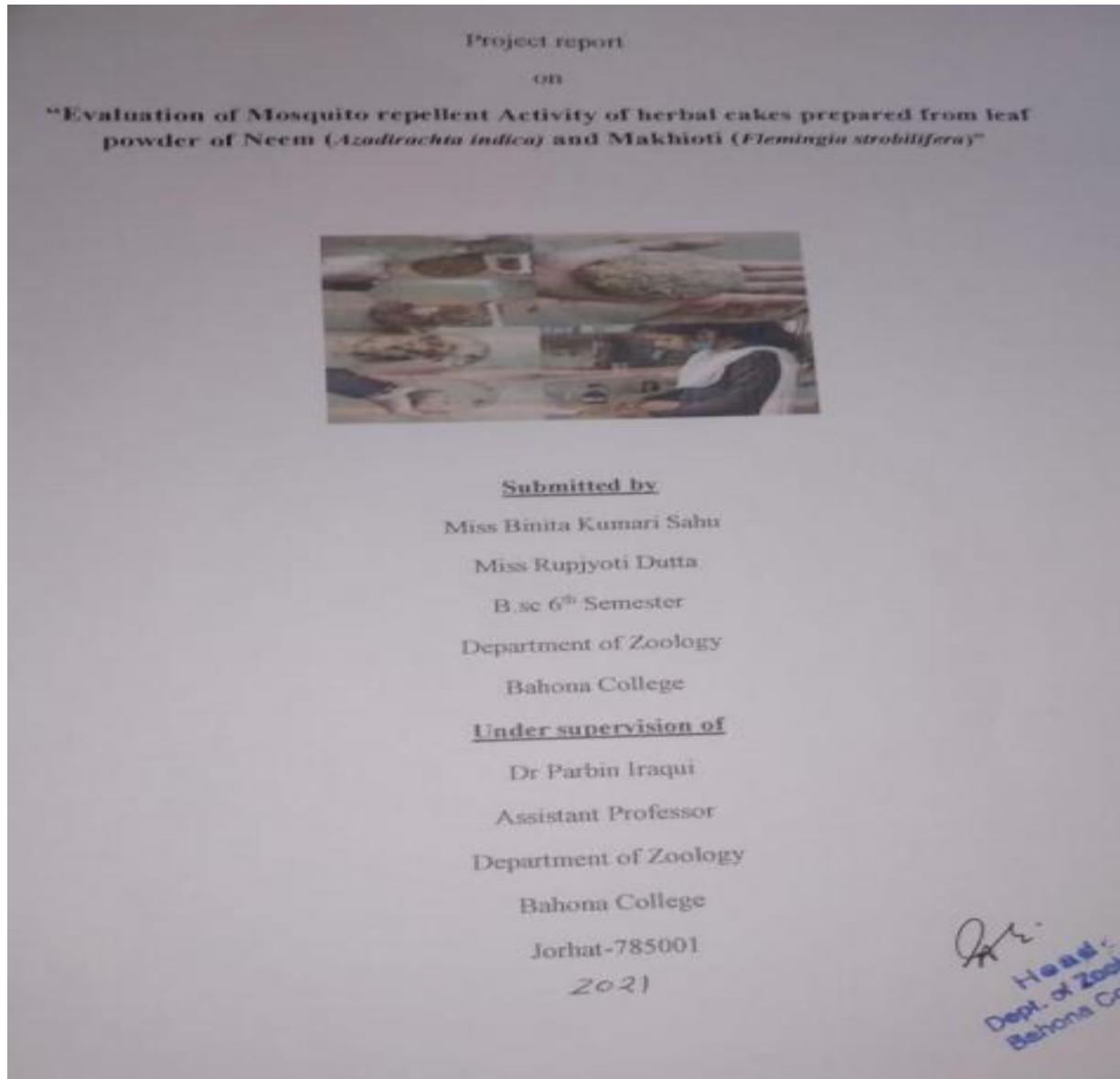



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CERTIFICATE

This is to certify that Miss Binita Kumari Sahu and Miss Rupjyoti Dutta, B.Sc. 6th Semester students of Dept. of Zoology, Bahona College have carried out the research project entitled "*Evaluation of Mosquito repellent activity of herbal cake prepared from leaf powder of Neem (Azadirachta indica) and Makhioti (Flemingia strobilifera)*" under my guidance and supervision. This project work was assigned to them as project work under the banner of **Environment and Climate Cell** of Bahona College.

This is also stated that the research work is original and not copied from other sources.

Parbin Iraqui

Dr. Gayatri Agni Borah
HOD, Department of Zoology

Dr. Parbin Iraqui
Supervisor,
Asst. Professor, Dept. of
Zoology Bahona College

Project Report by Student of Dept of Zoology [Page 2]


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ACKNOWLEDGEMENT

At first, we would like to express our gratitude to Dr. Gayatri Agni Borah (Head of the Dept.) for allowing us to conduct the project work. I would like to express my special thanks to our teacher Dr. Parbin Iraqui for her guidance and supervision to carry out and complete this project work. I am really thankful to them. Secondly, I would like to thank our parents and friends who helped us a lot in finalizing this project within the limited time frame.

Binita Kumari Sahu

Rupjyoti Dutta

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- ABSTRACT
- INTRODUCTION
- AIMS AND OBJECTIVES
- HYPOTHESIS OF THE STUDY
- MATERIALS AND METHODS
- RESULT
- CONCLUSION
- REFERENCE

Project Report by Student of Dept of Zoology [Page 3]


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ABSTRACT

Mosquitoes transmit serious human diseases causing millions of deaths every year. They are the vectors of diseases like dengue, Malaria, Filariasis, Encephalitis, Chikungunya etc. In India the most common disease causing mosquito species are *Aedes aegypti*, *Anopheles stephensi* and *Culex quinquefasciatus*. So from protect us from mosquito bites chemical mosquito repellent coils have been used by people for a long time. But the mosquito repellent coils which are available in the market give harmful effects on our health. It is also not good for our environment. So to combat these problems an alternative way to get rid of mosquitoes is very much needed. Plants are the source of many bioactive components and these components make them antibacterial, antifungal, larvicidal as well as mosquito repellent. So in his study we had selected Neem and makhoti plant leaves to prepare herbal mosquito repellent cakes and compared their activity with market available mosquito repellent coils. The leaves of these two plants have been used traditionally to repel insect as well as mosquitoes. Neem oil is used to kill harmful insects. In this study we had found that these herbally prepared mosquito repellent cakes gave better results than the chemical mosquito repellent coils. These herbal cakes are also eco-friendly as well as not injurious to our health.

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INTRODUCTION

Controlling mosquitoes is of utmost importance in the present day scenario with rising number of mosquito borne diseases [1]. The mosquitoes take a lead role in carrier of parasites like protozoa, virus, fungus, etc. They can cause some serious diseases like Dengue, Hepatitis-B, etc. which may cause death. Chickengunya causes fever and joint pain which can be severe and lasting for many days [2]. The risk of developing a serious disease is most dangerous outcome of mosquito bite. Mosquito borne diseases became a burning health problem in developing countries.

An alarming increase in the range of mosquitoes is mainly due to deforestation, industrialized farming and stagnant water [3]. There are 100 of mosquito species around the world but they all have two things common-they can all spread serious diseases and they all need water to breed in. Thus, special products like mosquito repellents for combating mosquitoes are required. There are various technologies and tools for the control of vector borne diseases, but still this problem is not solved yet [4]. One of the methods available for the control of mosquito borne diseases is the use of chemical insecticides but a main drawback in it is that they are non-selective and could be harmful to human and other non target organisms also. Market available chemical mosquito repellent coils which are used to repel mosquitoes gave adverse effects on our health as well as on the environment. The emission of formaldehyde from one burning coil can be as high as that released from fifty one burning Cigarettes [5]. This is because of the chemical found in mosquito coils. Making a mosquito coil out of natural ingredients may remove this problem.

Due to the harmful effects of chemical pesticides, insecticides and mosquito repellent coils an alternate method for vector control is essentially preferred and that is undoubtedly the biological control [6]. Plants have evolved a variety of secondary compounds, which are bioactive [7,8]. Due to presence of these compounds plants show activities like antibacterial, antifungal, antimalarials, larvicidal and mosquito repellent [9,10]. Plant extracts with insecticidal properties are used in the form of biological eco-friendly pesticides. So far more than five thousand plants have been searched for biopesticides [12,13]. The parts of plants like leaves, seed can be used to prepare mosquito repellent cakes which are not effective against mosquitoes but also eco-friendly [14].

Keeping all things in mind we had selected this project work of preparing mosquito repellent cakes from plant leaves. Mosquito repellent cakes made up of plant leaves can be used to repel mosquitoes. They will not be injurious to health as well as to the environment. In this study to traditionally used plants Neem and Makhioti were used to prepare mosquito repellent cakes and compared their repellent activity with market available mosquito repellent coil.

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AIM AND OBJECTIVES

The objectives of the study are listed below---

1. Preparation of herbal mosquito repellent cakes from the leaf power of Makhioti plant (*Flemingia strobilifera*) and Neem (*Azadirachta indica*).
2. Comparison of mosquito repellent activity of herbal cake prepared from leaf powder of Neem with market available chemical mosquito repellent coil.
3. Comparison of mosquito repellent activity of herbal cake prepared from leaf powder of Makhioti with market available chemical mosquito repellent coil.
4. Comparison of mosquito repellent activity of herbal cake prepared from leaf powder of Makhioti and Neem with market available chemical mosquito repellent coil.

HYPOTHESIS OF THE STUDY

If Neem and Makhioti leaves are extracted its natural component for making the mosquito repellent cake. We will observe its activity by applying the fog of mosquito repellent cake against mosquitoes. If it is effective against mosquitoes it will repel mosquitoes away and long time exposure may kill mosquitoes also. Then we can say the cakes prepared herbally have mosquito repellent activity.

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Methodology [11]

1. After collection of leaves we washed those leaves with the help of clean water and kept for dry under shade.
2. After 15 days, the dry leaves were grinded by mixer grinder, then it stored in a air tight container.
3. On 18 December, we collected the coconut fibre, extract of wood, candle and Maida flour. These material are important to prepared herbal mosquito repellent cakes.
4. After the collection of all materials, we take 4gm of each neem and makhiti leaves extract, 2gm of wood extract, 1gm of coconut fibre, 4gm of melted candle and 30mL. Maida. Then all these materials are mixed well and added hot water with these materials.
5. After mixing properly, the mixture of leaf powder with other substances kept under sun for drying .
6. After drying cakes were kept in air tight containers for further use.
7. On 26th of December 2020, we had started our experiment.
8. For this experiment , we took three containers, in one container we had put some burning pieces of herbal cake prepared from makhiti leaves, in one container we had put burning pieces of herbal cake prepared from neem and in one container chemical mosquito repellent coil (Maxo) was added. We had waited few minutes to let them create fog.
Then 20 mosquitoes were added to the both containers.
9. This way we had done repeated the experiment for three times and we had counted the senseless and dead mosquitoes in every 5 minutes in each container.

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MATERIAL AND METHODS

To start our experiment we had to collect selected plant leaves first. We had started to collect the plant leaves of project from two different areas. The details of the collection of leaves are given below:

Makhiati:

Area: Dakhinpat puroni satra gaon,

Majuli Date: 21.09.2020

Time: 4 PM(Taking picture of leaves) Time: 4.04 PM(Taking picture of plant)

Neem:

Area: Rajamaidam new

colony, Jorhat Date:

20.09.2020

Time: 11.15 AM(Taking picture of leaves) Time: 11.16 AM(Taking picture of plant)



Photographs of Neem and Makhioti plant leaves

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RESULT AND DISCUSSION

In this experiment the mosquito repellent activity of herbally prepared cakes was compared with the activity of market available mosquito repellent coil. Their activity measured on the basis of mosquitoes that became senseless and mosquitoes became after exposed to the fog that arise from burnt cakes and chemical coils.

From the experiment it was found that the herbally prepared mosquito repellent cakes are more efficient than the market available mosquito coil. These herbal cakes are also eco-friendly as well as not harmful for our health. The experiment was examined comparatively. We compared our herbal cakes with market available mosquito repellent coil and found that herbal cakes are more effective on mosquitoes than the chemical coils.

From the above observations, we find that among the three cakes, the cake made from Neem (*Azadirachta indica*) leaves and Makhoti is more effective than the chemical based products available in markets. This cake is able to make the mosquitoes unconscious in 10 minutes after consumption and sacked to the brink of death after 15 minutes.

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Table 1: Comparison of effectiveness of herbal cake prepared from leaf powder of Neem with Maxo Coil by counting senseless and dead mosquitoes.

Neem Leaf Cake				Chemical Substance (Maxo coil)			
Time	Total no. of mosquitoes	Senseless Mosquitoes count	Dead Mosquitoes count	Time	Total no. of mosquitoes	Senseless Mosquitoes count	Dead Mosquitoes count
5 min	20	0	0	5 min	20	0	0
10 min		1	0	10 min		0	0
15 min		2	0	15 min		3	0
20 min		2	0	20 min		5	2
25 min		4	3	25 min		6	2
30 min		2	2	30 min		3	1
35 min		4	5	35 min		3	5
40 min		4	6	40 min		0	7
45 min		4	7	45 min		0	3
50 min		0	8	50 min		0	3

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Table 2: Comparison of effectiveness of herbal cake prepared from leaf powder of Makhioti with Maxo Coil by counting senseless and dead mosquitoes

Makhioti Leaf Cake				Chemical mosquito repellent (Maxo coil)			
Time	Total no. of mosquitoes	Senseless Mosquitoes count	Dead Mosquitoes count	Time	Total no. of mosquitoes	Senseless Mosquitoes count	Dead Mosquitoes count
5 min	20	0	0	5 min	20	0	0
10 min		1	0	10 min		0	0
15 min		1	0	15 min		0	0
20 min		4	0	20 min		4	2
25 min		4	0	25 min		6	2
30 min		1	0	30 min		3	1
35 min		3	2	35 min		3	2

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40 min	3	3	40 min	0	3
45 min	5	3	45 min	0	3
50 min	4	2	50 min		4
55 min	2	4	55 min		5
60 min	0	5	60 min		5
65 min	0	8	65 min		5

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Makhioti + Neem Leaf Cake				Chemical mosquito repellent (Maxo coil)			
Time	Total no. of mosquitoes	Senseless Mosquitoes count	Dead Mosquitoes count	Time	Total no. of mosquitoes	Senseless Mosquitoes count	Dead Mosquitoes count
5 min	20	0	0	5 min	20	0	0
10 min		2	0	10 min		0	0
15 min		2	2	15 min		3	0
20 min		3	1	20 min		5	2
25 min		6	2	25 min		6	2
30 min		6	5	30 min		3	1
35 min		1	7	35 min		3	5
40 min		0	3	40 min		0	7
45 min				45 min		0	3

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CONCLUSION

Since the use of synthetic chemicals to control mosquitoes raises several concerns related to environment and human health. An alternative of it is to use natural products that possess good efficacy and are environmentally friendly. Among those chemicals essential leaves from plants belonging to several species have been helpful in repellent properties as a valuable resource. Neem (*Azadirachta indica*) and Makhroti (*Flemingia strobilifera*) leaves are the essential whose repellent activities have been demonstrated also smell nice. There are hundreds of ways to repel the mosquitoes naturally and all are cheap and simple to make and with a little inventiveness we will soon compile our own list of homemade natural remedies.

PHOTOGRAPHS



Preparation herbal mosquito repellent cakes from the leaf powder of Neem and Makhroti

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PROJECT REPORT ON
FEEDING HABIT OF CERTAIN LOCAL
FISHES THROUGH RLG VALUE



SUBMITTED BY

SANGITA BORUAH

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CERTIFICATE

This is to certify that Miss Sangita Boruah bearing Rollno 17020142 of B.Sc 6thsem of Zoology Department, Bahona College Jorhat, affiliated to 'Dibrugarh University' has completed this research project entitled "FEEDING HABIT OF CERTIN LOCAL FISHES THROUGH RLG VALUE", herself under my guidance and supervision. This is an original research work and not submitted elsewhere for any degree or award. This report has been submitted in partial fulfillment of the B.Sc 6thsem practical paper 605 requirement of Dibrugarh University.

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CERTIFICATE

This is to certify that Sangita Boruah (17020142), Pratim Das (17020087) and Kettrina Patik(17020125), students of B.Sc. 6th semester Zoology Department of Bahona College have carried out the project work " Feeding Habit of Certain of Local Fishes Through RLG Value". Under my guidance and supervision of Department of Zoology of Bahona College. This project is a part of UG Zoology Major syllabus of Dibrugarh University 6th semester and the instructions has been followed by this research activity.

It is also stated that the research work is original and not directly copied from other sources. Further, it was not submitted anywhere else for any degree or award. Any part of the report left without citation is purely unintentional and the credit remains to the original author(s).

The level of participation of each student in the project work:

High	Medium	Low	Equal
------	--------	-----	-------

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ACKNOWLEDGEMENT

In the accomplishment of my project report on "*FEEDING HABIT OF CERTAIN LOCAL FISHES THROUGH RLG VALUE*" successfully, many people have owned upon me their blessings and the heart pledged support.

At the very honest I am happy to acknowledge the teachers of Zoology Department for providing us the facilities in successful completion of the project report. I would like to pay sincere thank to Dr. P. Dutta (principal name) for financial support and permission.

I extended my heartfelt gratitude to Dr. Gayatri Agni Bora, HOD of the department for the arrangements and who also help me during the journey of my survey.

I express my deep sense of gratitude to our respected Dr. Bikramaditya Bakallal, assistant professor of the department whose suggestions, instructions and constant encouragement throughout the tenure of this investigation has served as the major contributor towards the completion of this project. I also thank him for sharing some of the photographs.

I am also thankful to my team members for field data record as well as report preparation.

Sangita Boruah.
(full signature of student)

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INTRODUCTION

Every organism on earth requires energy for growth, reproduction and other metabolic activities. These life sustainable processes take place utilizing food energy. Hence, food is considered as the most essential component for the growth of all living organisms.

The growth of a fish is influenced by the quality and quantity of food materials available and consumed. Fishes like any other organisms depends on the energy received from its food to perform its biological processes. Any variation in quality and quantity of food materials will affect the growth rate of the fish. Food consumption is the major factor controlling fish production. Information on the natural food of fish is important in understanding its nutritional requirements, its interaction with other organisms and its potential use for aquaculture (Royce, 1987).

Studies on food and feeding habit of fishes have importance on fishery biology (Sarkar and Deepak, 2009). Studies associated to feeding of fishes in their natural environments are of major importance for the management of their fishery and also for the environment (Al-Kahem et al., 1988, 1990). Understanding of food and feeding habit provides information on the aquatic ecosystem, fish health, trophic relations of fishes and other aquatic organisms.

Food availability is a factors which strongly influence fish community biomass. Woodward & Hildrew (2002) stated that the food web model is an effective tool for describing trophic relationships among organisms. Grouping organisms by trophic level (i.e., producer, herbivore, predator) loosely characterizes their relative position within a food web, but this categorical approach does not account for complex trophic interactions such as omnivory (Kling et al. 1992).

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The underwater observation of feeding habit of fish is easy. But there are some indirect methods though which the feeding nature can be understood. Analysis of Relative Length of Gut (RLG) is one of such approach which together with other observations helps to determine the feeding guild of a fish. The herbivore fishes possess very long alimentary canal whereas carnivorous fish have short gut length. The larger the value the more herbivory and value close to 1 indicate omnivory whereas value towards zero indicate pure carnivory.

In this project work, we tried to find out the feeding habit of different locally available fish species by using the RLG value method.

CONTENT

- INTRODUCTION
- MATERIALS AND METHODS
- PHOTOGRAPHS
- RESULT AND DISCUSSION
- CONCLUSION
- REFERENCES

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MATERIALS AND METHODS

Collection of Fish:

Fresh fishes were collected from weekly market of Bahona College area, Jorhat during Pre Covid Pandemic Lockdown period. The fishes are brought to the market from pond, wetlands, ditches of nearby area. Occasionally, harvested fishes are supplied from Majuli also.

The study was carried out from August 2019 to October 2019.

RLG measurement.

The length of the gut was measured and the relative length of the gut was estimated (RLG) for the different length groups by the method of AlHussaini (1949).

$$\text{RLG} = \text{Length of the alimentary canal} / \text{Total length of the body}$$

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RESULTS & DISCUSSION

The relative gut length of 22 native fish species were studied and the species specific values are given in Table 1. The comparative data are also shown in Fig 1.

Table 1: Fish species and their RLG value

	Species studied	Gut Length (Avg.)	Total Length (Avg.)	RLG Value
1	<i>Allia coila</i>	10.7	8.23	0.77
2	<i>Amblypheryngodon mola</i>	6.3	19.1	3.02
3	<i>Anabas testudineus</i>	8.9	12.6	1.51
4	<i>Channa gachua</i>	9.6	3.4	0.35
5	<i>Channa punctatus</i>	10.1	4.5	0.44
6	<i>Esomus danricus</i>	5.3	12.66	2.39
7	<i>Glossogobius giuris</i>	9.6	3.93	0.41
8	<i>Heteropneustes fossilis</i>	15.7	20.7	1.31
9	<i>Labeo bata</i>	8.02	58.7	7.32
10	<i>Labeo boga</i>	11.2	54.9	4.73
11	<i>Lepidocethalichthys guntea</i>	8.1	6.5	0.8
12	<i>Macrognathus aral</i>	11.4	9.91	0.87
13	<i>Macrognathus punctatus</i>	14.1	9.8	0.68
14	<i>Mystus tengara</i>	6.94	3.74	0.54
15	<i>Neotropius atherinoides</i>	7.1	3.9	0.54
16	<i>Notopterus notopterus</i>	9.9	6.5	0.64
17	<i>Nundus nundus</i>	9.1	13.7	1.5
18	<i>Ompok bimaculatus</i>	12.2	6.58	0.54
19	<i>Puntius sophore</i>	9.6	17.1	1.74
20	<i>Puntius ticto</i>	7.2	15.26	2.12
21	<i>Salmostoma bacaila</i>	8.8	15.5	1.7
22	<i>Trichogaster fasciata</i>	7.9	67.9	8.6

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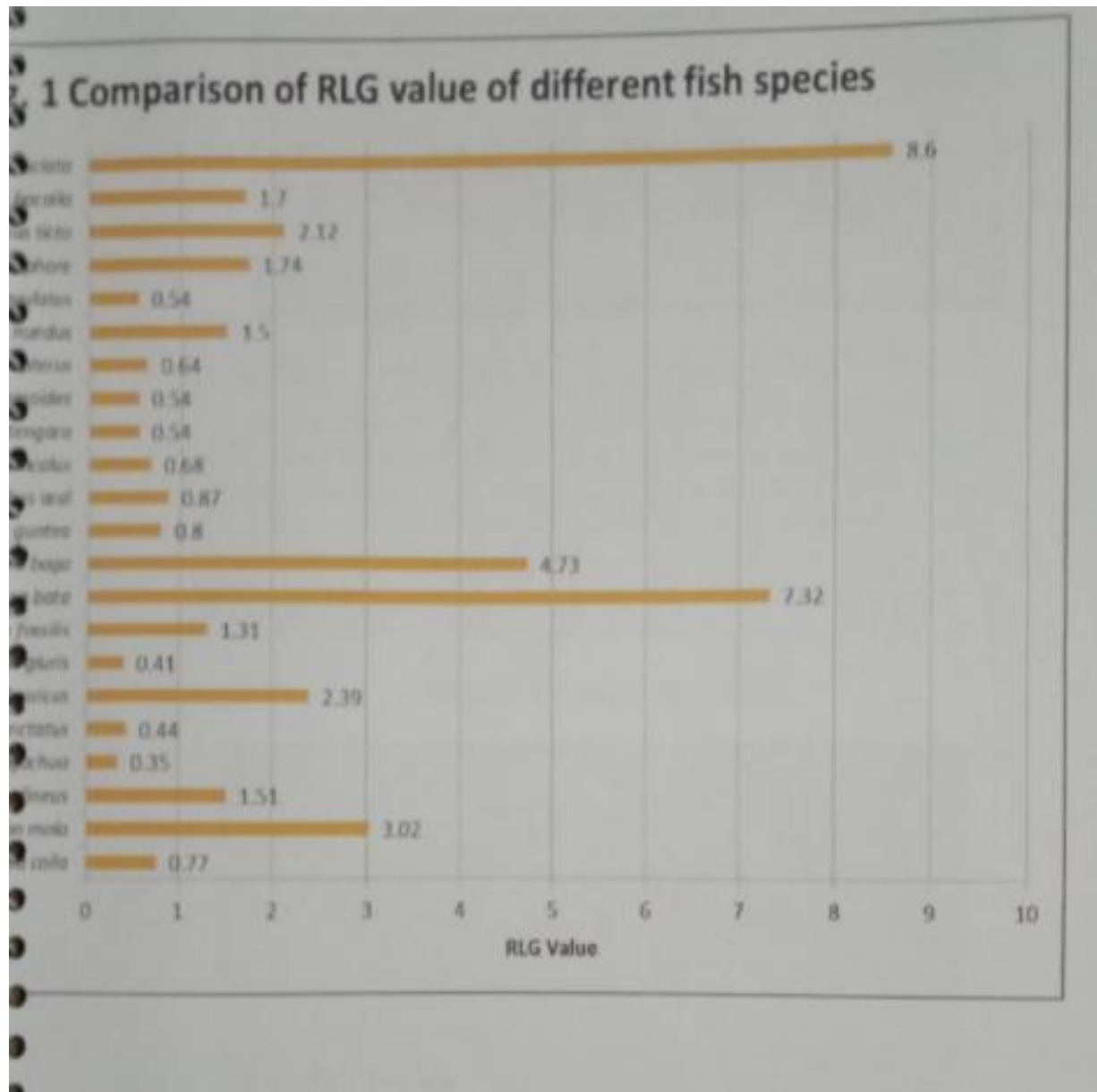

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Singora (Mystus tengara)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	8.9	4.8	0.54
Sp 2	7.7	4.3	0.56
Sp 3	6.1	3.2	0.53
Sp 4	6.8	3.7	0.55
Sp 5	5.2	2.7	0.52
Average	6.9	3.7	0.54

Gedgedi (Nundus nundus)



Specimen (Locality)	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	9.5	14.5	1.53
Sp 2	7.2	10.4	1.45
Sp 3	11.2	17.6	1.58
Sp 4	6.9	9.7	1.42
Sp 5	10.4	16.2	1.56
Average	9.04	13.7	1.50

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Chengeli (*Channa gachua*)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	10.5	4	0.39
Sp 2	8.3	2.7	0.32
Sp 3	9.6	3.3	0.34
Sp4	10.2	3.8	0.37
Sp 5	9.4	3.2	0.33
Average	9.6	3.4	0.35

Kanduli (*Notopterus notopterus*)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	11.1	10	0.9
Sp 2	9.8	5.9	0.6
Sp 3	10.5	8.4	0.8
Sp4	8.7	3.5	0.4
Sp 5	9.4	4.7	0.5
Average	9.9	6.5	0.64

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Puthi (Puntius sophore)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	10	20.7	2.07
Sp 2	9.8	19.6	2.01
Sp 3	10.7	22.4	2.09
Sp4	8.5	10.1	1.18
Sp 5	9.2	12.7	1.39
Average	9.6	17.1	1.74

Goroi (Channa punctatus)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	10.2	4.5	0.45
Sp 2	9.5	3.9	0.42
Sp 3	11.5	5.7	0.49
Sp4	8.9	3.7	0.41
Sp 5	10.6	4.7	0.44
Average	10.1	4.5	0.44

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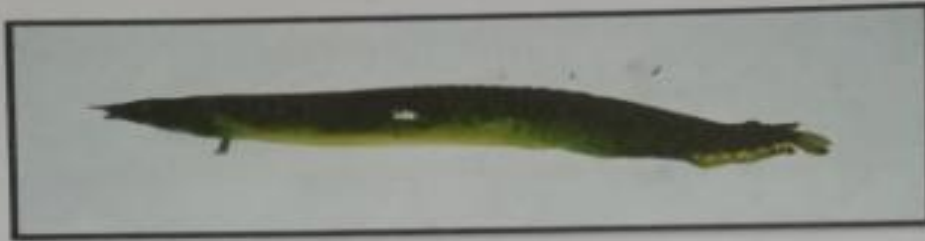
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Tura (*Macrornathus punctatus*)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	15	12	0.8
Sp 2	13	7.8	0.6
Sp 3	14.6	10.2	0.7
Sp4	15.8	14.3	0.9
Sp 5	12.2	4.9	0.4
Average	14.1	9.8	0.68

Bheseli (*Trichogaster fasciata*)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	8	70	8.8
Sp 2	8.7	79.2	9.1
Sp 3	7.5	62.3	8.3
Sp4	9.2	87.4	9.5
Sp 5	7.9	67.9	8.6

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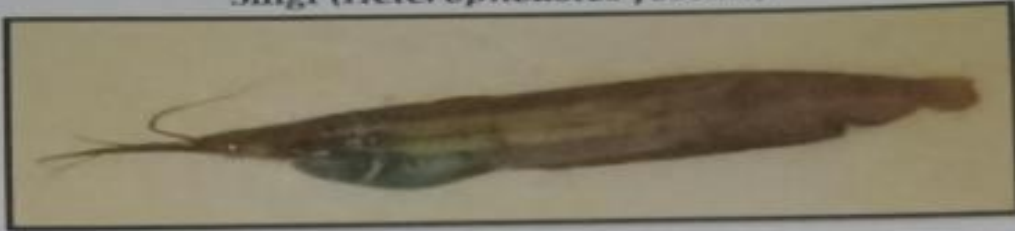
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Singi (Heteropneustes fossilis)



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	16.8	22.7	1.35
Sp 2	15.2	19.9	1.31
Sp 3	16.2	21.5	1.33
Sp4	14.9	19.1	1.28
Sp 5	15.5	20.4	1.32
	15.7	20.7	1.31

Borduwa Neotropius atherinoides



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	6.7	3.5	0.53
Sp 2	7.5	4.5	0.59
Sp 3	6.2	2.9	0.48
Sp4	8.3	5.1	0.62
Sp 5	6.9	3.5	0.51
Average	7.1	3.9	0.54

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Botia Lepidocephaleichthys guntea



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	7.9	6.2	0.78
Sp 2	7.2	5.2	0.73
Sp 3	8.5	7.1	0.83
Sp4	7.7	6.2	0.81
Sp 5	9.1	8.1	0.89
Average	8.1	6.5	0.80

Selkona (Salmophasia)



Specimen (Locality)	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	8	8	1
Sp 2	8.8	13.2	1.5
Sp 3	10	30	3
Sp4	9.2	17.4	1.9
Sp 5	8.3	9.1	1.1
Average	8.8	15.5	1.7

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Kawoi *Anabas testudineus*



Specimen (Locality)	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	8.8	12.5	1.42
Sp 2	8.1	11.1	1.38
Sp 3	9.3	13.2	1.41
Sp4	8.6	11.9	1.39
Sp 5	9.9	14.5	1.47
Average	8.9	12.6	1.41

Mowa *Amblypheryngodon mola*



Specimen	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	6.2	18.5	2.98
Sp 2	6.7	20.8	3.11
Sp 3	5.5	15.7	2.87
Sp4	5.9	17.4	2.95
Sp 5	7.2	23.1	3.22
Average	6.3	19.1	3.02

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Labeo boga



Specimen (Locality)	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	11.4	54.2	4.75
Sp 2	10.2	45.9	4.50
Sp 3	11.9	58.5	4.92
Sp4	11.6	56.3	4.86
Sp 5	10.8	49.8	4.62
Average	11.2	54.9	4.73

Labeo bata



Specimen (Locality)	Total Length (TL)	Gut Length (GL)	Relative length of gut (RLG)
Sp 1	8.2	60	7.31
Sp 2	8.5	62.5	7.36
Sp 3	7.8	56.8	7.28
Sp4	6.9	50.2	7.27
Sp 5	8.7	64.3	7.39
Average	8.02	58.76	7.32

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Understanding the feeding habit of fish species is of great importance in understanding their ecological interaction (Alberto *et al.*, 2003). The alimentary canal of fishes is well adapted and modified in accordance with their nature of diet and mode of feeding habits. The structure of alimentary canal and external morphology are influenced greatly by ecology of the food and feeding regimes (Thomas, 1962; Sinha, 1968). The variation in position, shape and size of mouth can be correlated to the dietary habits of fishes. The feeding behavior is a species characteristic formed during its life history (Nilkolsky, 1963).

According to Fukusho, (1969) The length of intestine in fish depends up on its feeding habits, Modification of the intestine (short, moderate, long or coiled) is an indication of its feeding habit- carnivores, omnivores or herbivores.

The length of fish intestine is clearly related to the trophic status of the species, being in the order, carnivores < omnivores < herbivores < detritivores (Fryer and Iles 1972). Junger *et al.* (1989) stated that short intestine indicates a tendency towards carnivory. Carnivore fishes normally have short and more or less straight intestine because the meat gets digested more easily, whereas in herbivore fishes, the intestine is long and coiled as the cellulose containing food items take more time for digestion (Pandey and Shukla, 2005; Serajuddin and Ali, 2005). According to Nikolsky (1963), gut length less than 100% of body length indicates carnivory while more than 100% indicates herbivory and an intermediate value indicates omnivorous mode of feeding (Das and Nath, 1965). According to Jobling (1995), the ratio of the intestinal length to body length is usually less than unity in carnivores species. In omnivores, the ratio may increase to around 2-3, and the ratio is even higher in herbivores and those fish species which consumes diet with a high roughage content. Relative gut lengths may range from 0.5 to 2.4

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for carnivores, 0.8 to 4 for omnivores and 2 to 21 for herbivores (Al-Hussaini, 1949, Kapoor *et al.* 1975) .

In the present study the RLG value for *Channa gachua*, *Glossogobius giuris*, *Channa punctatus*, *Mystus tengara*, *Neotropius atherinoides*, *Ompok bimaculatus*, *Notopterus notopterus*, *Macrognathus punctatus*, *Ailia coila*, *Lepidocethalichthys guntea* and *Macrognathus aral* were found in between 0.35-0.87 indicating their carnivory nature.

On the other hand, the RLG value (range 1.31-3.02) for *Heteropneustes fossilis*, *Nundus nundus*, *Anabas testudineus*, *Salmostoma bacaila*, *Puntius sophore*, *Puntius ticto*, *Exomus danricus*, and *Amblypheryngodon mola* showed that they are omnivore in feeding habits.

The remaining three species *Labeo boga*, *Labeo bata*, *Trichogaster fasciata* are herbivorous and their RLG values were 4.73, 7.32, and 8.6 respectively.

CONCLUSION

In the present study, we reported the feeding habit of 22 species based on their Relative Length of Gut (RLG) value. Information on the food and feeding habit of many native species are still incomplete and proper study including other biological and physiological condition should be undertaken.

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প্ৰস্তুতকৰ্তা :

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Report of Field-Based Study Submitted by Advanced Learner from Dept of Assamese [Page 1]


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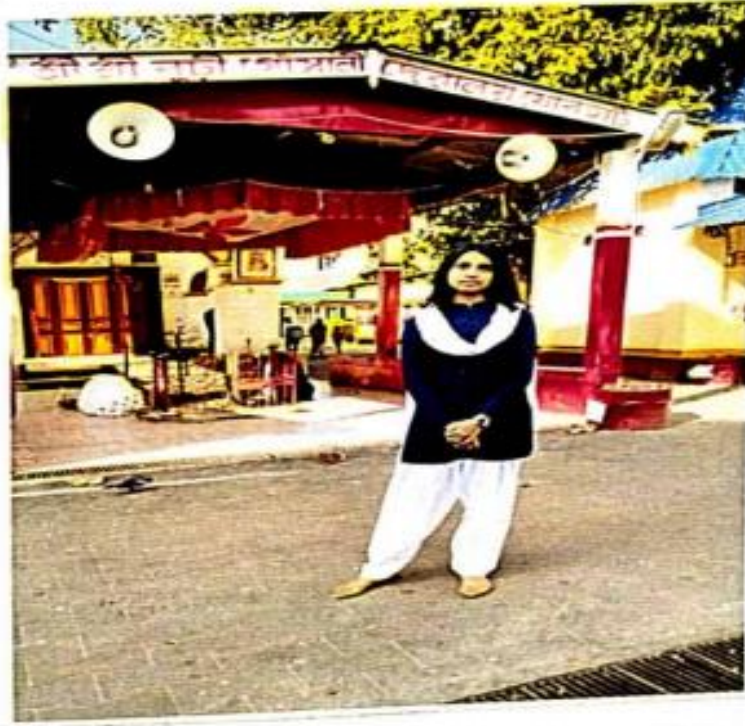

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অসমত বিভিন্ন ষ্ট্ৰীয়া ষ্ট্ৰিচ্যৰে লেখুৰ হৈ আছে।
ই ষ্ট্ৰিচ্য মণ্ডিত ষ্ট্ৰীয়া অনুষ্ঠান সমূহে যোগে যোগে উচ্চ গুণ
যুক্ত আকৰ্ষিত কৰি আহিছে। তেনে এক ষ্ট্ৰীয়া ক্ষেত্ৰ বিষয়ে
ই প্ৰকল্পৰ জৰিয়তে পাঠকক অৱগত কৰাই এই প্ৰকল্পৰ মূল
মুদ্দেশ্য।

উদ্দেশ্য

অসমৰ পাঠকসকলক অৱগত কৰি গোট হৈছে ক্ষেত্ৰ ভিত্তিক
অধ্যয়ন, গতিকে অসমৰ বিভিন্ন ষ্ট্ৰীয়া ক্ষেত্ৰৰ ডিভৰ্চত যোগাৰত
যুটী সোঁজানী দেৱালয়ক ক্ষেত্ৰ ভিত্তিক অধ্যয়ন হিচাপে নিৰ্বাচন
বিজ্ঞান, গতিকে এই দেৱালয়ৰ প্ৰাৰম্ভিক বিষয়ে পাঠকক জ্ঞাত
কৰাৰে হৈছে ক্ষেত্ৰ ভিত্তিক অধ্যয়নৰ মূল উদ্দেশ্য।

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মোহনচাঁৰ বুকী পোজীনি দেৱালয় ডাকি কুলক অপচয় কিসায়ে আলোচনা
কৰাৰ পাতত এই দেৱালয় গ্ৰন্থৰ অ-স্বত্বপৰ চৰকাৰ চৰকাৰী আৰু কি চৰকাৰ
আঁচনী নৈদে চাক বিধেয়ন কৰি চালে দেখা যায় যে দেৱালয় স্বত্ব
অনুৱ পূজাৰী সকলে আৰু আনুষ্ঠানিক গ্ৰন্থ কৰ্মীৰে বিশেষ প্ৰাচীৰ কলত
অক্লীৰিত হৈ আদ, গটিকে আৰি অনুৱ ডাকি পুনে জাইদে আলোচনা কৰি
চৰকাৰী পুঁজি অ-প্ৰৱ কৰি বিশেষ ভাৱে অ-স্বত্বপ কৰি স্বত্ব টাটত, এই
ক্ষেত্ৰত অৱৰ চৰকাৰ কি চৰকাৰ পদাৰ্থপ নৈদে জাইদে অক্লীৰা চিন্তা কৰিব
লগা কৰা, গটিকে এই পৰিত স্বত্বনুষ্ঠান অনুৱ স্বত্বাৰীয়া কৰি স্বত্বাৰীয়া
টাটত।

Report of Field-Based Study Submitted by Advanced Learner from Dept of Assamese [Page 5]


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Age Specific Distribution of Population in Bahona Area



Guide : Reema Rabha

Prepared by :

Pallabi Saikia
Shamima Yasmin
Dipsikha Bora
Rajat Saikia


Principal
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TDC Third Semester
Department of Economics
Bahona College
Year : 2016


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Contents

- ❖ Introduction
- ❖ Objective
- ❖ Methodology
- ❖ Result and Discussion
- ❖ Conclusion
- ❖ Reference
- ❖ Acknowledgement

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INTRODUCTION:-

In developing country, the economic development is also depending upon their age structure of population. Classification of people according to age is called age structure. Age structure of a population refers to the number of people in different age groups. It is important to study age structure of population to relate and study the work efficiency, social status, education, occupational patterns of the people. A larger size of the population in the age group of 15-60 years indicates the chances of having a large work force in the country. If the percentage of working population of a country is higher, then it can be stated that the country is in favourable stage of economic development. It is not favourable, if the number of children in the population, that is, the dependency ratio is higher. Similarly, a growing population in the age group 60 plus indicates greater expenditure on the care of the aged and it is somehow burden to the government. The more is the population of age group less than 15 and more than 60, the less is economic efficiency in the country particularly in primary sector dependent country like India.

Therefore, the types of age structure have a direct influence on the future of a nation. Since both sides, old

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RESULT AND DISCUSSION...

From the following table, it is seen that the above objectives are fulfilled.

Area Indicator	Parameter	Social groups			
		Gen	OBC	MUS	SC
HH expenditure	Average	2746.67	1715.48	2231.59	1148.89
	CV	65.57	50.35	52.10	31.05
Male & female both	Average	37.45	35.38	37.78	28.90
	CV	14.59	15.27	18.98	16.84
Male age	Average	43.62	42.43	37.87	28.95
	CV	32.34	22.10	22.36	26.50
Female age	Average	37.52	32.70	40.81	29.78
	CV	22.80	26.63	21.12	20.81
life expectancy	Average age	78.07	83.60	76.53	74.07
	% death in total	100	100	100	100
Life expectancy Male	Average age	78.38	85.33	77.50	69.44
	% death in total	53.33	80	53.33	60
Life expectancy Female	Average age	77.71	76.67	75.43	81
	% death in total	46.67	20	46.67	40

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দৈনন্দিন জীৱনত বিজ্ঞাপনৰ ভূমিকা
- যোৰহাট জিলাত এক ক্ষেত্ৰভিত্তিক অধ্যয়ন



তত্ত্বাবধায়ক : ড° বফিক আহমেদ

প্ৰস্তুতকৰ্তা : মেঘাশ্ৰী ভূঞা
পূজা শইকীয়া
পল্লবী পেঙ


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পাতনি :- বিজ্ঞানৰ মানৱ জীৱনত বিভিন্ন ক্ষেত্ৰত জ্ঞান আহৰণ কৰাত সহায় কৰে।
মানৱ জীৱনৰ বিকাশৰ প্ৰধানী স্তৰ হৈ উদ্ভিদ, উদ্ভিদোক্ত কিণ্বাৰ মাগে বা বাল্যে, উদ্ভিদোক্ত কি কাণোৰ বা জেতা পিক্সিৰ জাণ বা বাল্যে ইত্যাদি জ্ঞানত সহায় কৰে।
- কিছুমান সামাজিকনীতিগতৰ ক্ষেত্ৰ, বিজ্ঞানসন্মতৰে মানুহক বেনেগা এগৰা প্ৰকৃতিৰ প্ৰাণীৰ দৰে পালন কৰিব লাগে। জীৱনৰ বহুমান হাত বৰ্তমান জীৱন নিৰ্বাহ কৰি বস্তু আছে। সেইবাবে বিজ্ঞানসন্মতৰে বাস্তৱিক আচৰণ প্ৰতিষ্ঠা কৰিব লাগে।
- বৰ্তমান সমস্যা বিজ্ঞানৰ আমাৰ জীৱনত জীৱনৰ প্ৰতি প্ৰতি মনোজীৱীৰ অংশ হৈ পৰিছে। এই বিজ্ঞানসন্মতৰে বিভিন্ন সন্মতৰ চৰিত্ৰত বিজ্ঞান সন্মতৰ প্ৰমাণ কৰিব পৰা হ'ব, যেনে- বেতিয়া, হৃদয়ৰ ব্যৱহাৰকৰ্ত, জন মানৱ বিজ্ঞান ইত্যাদি। বিভিন্ন সামাজিকনীতিগত বিজ্ঞানৰ জৰিয়তে উদ্ভিদোক্তৰ উৎপাদিত উৰা আনন্দী সন্মতৰ ক্ষেত্ৰ কৰাৰ বাবে মানুহক আকৰ্ষণ কৰাৰ, বিজ্ঞান সন্মতৰ ক্ষেত্ৰ আকৰ্ষণ কৰাৰ আহিলা বহুমান বৰ্তক বিজ্ঞানৰ দ্বাৰা প্ৰচলিত তথ্য কৰিব লাগে।
- কিছুমান বিজ্ঞানৰ দ্বাৰা জীৱনত বেয়া প্ৰভাৱ পৰাও দেখা যায়। যেনে- কিছু বিজ্ঞানে মানৱ জীৱনত বীৰ, মনুষ্য ইত্যাদি ক্ষেত্ৰত প্ৰতি বেয়া প্ৰভাৱিত নাওঁ বীৰ প্ৰাণী, আৰু কিছু ক্ষেত্ৰত বিজ্ঞানে মানুহৰ জীৱনত বীৰ প্ৰভাৱে বহু প্ৰভাৱ পৰাও দেখা যায়। বিশেষকৈ সন্মতৰ ক্ষেত্ৰত বীৰ প্ৰভাৱক প্ৰভাৱ পৰাও দেখা যায়।

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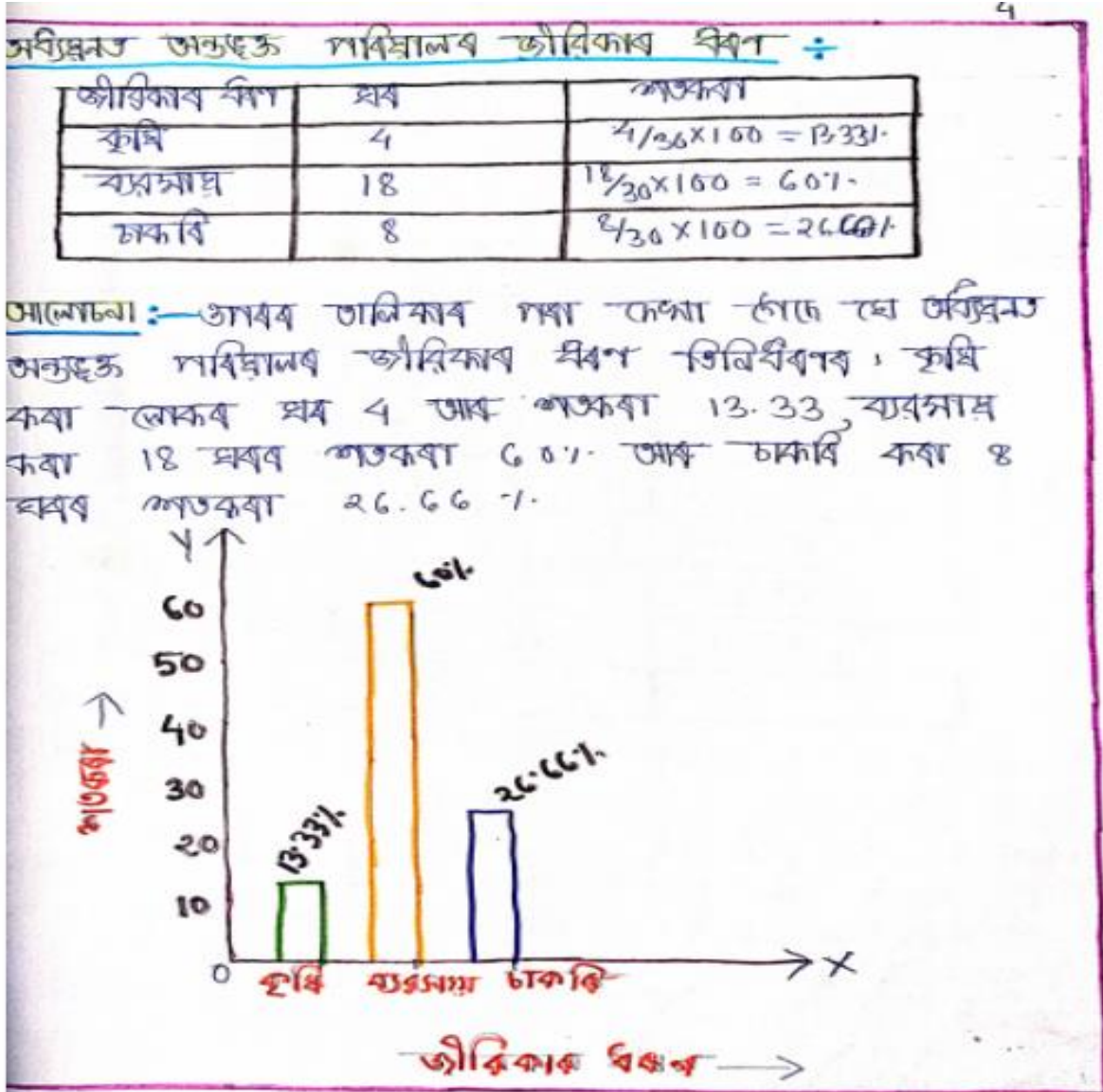

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অসমৰ গোলাঘাট জিলাৰ প্ৰসংগত চাহ বাগানৰ
মহিলা কৰ্মীসকলৰ জীৱন নিৰ্বাহৰ
এক ক্ষেত্ৰভিত্তিক অধ্যয়ন



তহাবধায়ক : বীমা বাভা

প্ৰস্তুতকৰ্তা : স্বতূপৰ্ণা দত্ত
ৰস্মী নাথ
সুব্ৰজ পাটিৰ


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পাঠনি

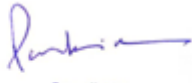
চাহ উদ্যোগ আৱহাৰ বৃহৎ হাৰতৰ নিৰ্দেশ্য সুবিধাৰী
 উদ্যোগ। ভাৰতবৰ্ষৰ উত্তৰত চাহ উৎপাদনৰ হেতুত
 আৱহাৰ জন প্ৰাৱা। উন্নয়ন আৰ্হাৰীত চাহ উদ্যোগ
 অতি সুস্বপূৰ্ণ স্থান দখল কৰি আছে। তাৰো
 উৎপাদনৰ স্থৰ-গুৰু উৎপাদন ৫৪% আৰু উত্তৰ
 প্ৰদেশত চাহ উৎপাদনৰ হেতুত প্ৰায় ৯৯%
 বৰ্ত্তি আৱহাৰই আছে। আৱহাৰ উৎপাদিত ৭৫%
 গুৰু বৰ্ত্তি কৰা হয়। শ্ৰীলঙ্কা উত্তৰ আৱহাৰে চাহৰ
 গুণিত্ব বা আৱহাৰ চাহ উৎপাদন বুলি কলেও কুল কৰা
 নহয়। আৱহাৰ উ-গৰ্ভত শ্ৰীলঙ্কা কোটি কোটি টকা ব্যয়
 কৰি আৰু শ্ৰীলঙ্কা তেল পোৱা যায়; উক্ত শ্ৰীলঙ্কা
 আৱহাৰ উত্তৰি উত্তৰ বৰ্ত্তিমে কোটি কোটি টকা ব্যয়
 কৰি লহ-আৰ্হাৰে কৰি আৱহাৰ কৰা কৰে। শ্ৰীলঙ্কা
 বৃহৎ আৰু উত্তৰ বৰ্ত্তিৰ চাহৰ কেন্দ্ৰস্থি বুলি
 আৱহাৰ লহা সুবিধাৰীত সুবিধিত।

চাহহেতি আৱহাৰ কিয়া উৎপাদনৰে নতুন। ইতিপৰ্য্য
 লোকসকলেই ইয়াৰ আৱহাৰ দেখত প্ৰৱৰ্ত্তন কৰে। ইয়াৰ
 উৎপাদন চিত্ৰই বুলি কোৱা হয় যদিও আৱহাৰ সুবিধা
 ইয়াৰ আৱহাৰ হৈছিল। উত্তৰ উত্তৰ আৱহাৰ বৰ্ত্তনত
 প্ৰচুৰ চাহৰে চাহৰে আৱহাৰ কৰে। এই প্ৰচুৰ চাহৰ
 আৱহাৰ চাহৰে আৱহাৰে প্ৰচুৰ চাহ উদ্যোগ
 পিতৃ বুলি গণ্য কৰা হয়। বৰ্ত্তমান আৱহাৰ চাহৰে
 আৱহাৰ প্ৰায় ৩২২.৫১ হেক্টৰ হেক্টৰ আৰু আৱহাৰ
 স্থৰ চাহৰ উৎপাদন ৫১৬ নিম্বুত কিলোগ্ৰাম।

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আমাদেৰ চাহ উদ্যোগত অগ্ৰসৰত বহিৰলৈ কৰ্মী-সকলৰ আঁহ
আঁহ :

দেহন সূত্ৰা চাহ উদ্যোগত বহিৰলৈ কৰ্মীৰ আঁহ পুৰুষসকলক অধিক । তলত এহাৰ তালিকাৰ দ্বাৰা বোঝাক দেখুওৱা হৈছে -

আমাদেৰ বহিৰলৈ কৰ্মী-সকলৰ আঁহ

বৰ্ষ	দৈনিক সৰে নিৰ্দেশনা হেৰা অধিকৰ আঁহ			
	পুৰুষ	বহিৰলৈ	মিশ্ৰ অধিক	মুঠ
২	২	৩	৪	৫
১৯৯৮	২৮৮-২৮৭	২৫৩০৩৬	৩৭৩৯৯	৫৬৬৭৯৪
১৯৯৯	২৯২৩২৩	২৫৫৭৯৪	৩৭৯০৬	৫৯৬৯৪৩
২০০০	২৯৩৬৫৬	২৭০৬৯৯	৩৮৯৬৪	৫০২৫৩৫
সৰ্বমুঠ ২০০০	৫৭০২৬৭	৫৯৩৫৭৯	৪৬২৯৭	১২০০৫৫

তালিকাৰ পৰা দেখা গৈছে যে আমাদেৰ এহাৰ পুৰুষ আঁহ বহিৰলৈ আঁহ কামতহে হৈছে, তলত পুৰুষসকলক বহিৰলৈ আঁহ চাহ উদ্যোগত অধিক ।

তালিকাত মিশ্ৰ অধিকৰ আঁহ দেখুওৱা হৈছে । মিশ্ৰ অধিক কৰ্মীৰ চাহ কামত অগ্ৰসৰত, পাৰ্থক্য পৰা দিয়া, তল চাহা কৰা ইত্যাদি কামত নিয়োজিত হৈ থাকে ।


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বংদৈ অঞ্চলত বাজহুৰা বিতৰণ ব্যৱস্থা
- এক ক্ষেত্ৰভিত্তিক অধ্যয়ন



তত্ত্বাবধায়ক : বীমা বাভা

প্ৰস্তুতকৰ্তা :
প্ৰিয়ংকা বৰা
সংকল্পিতা বৰা
নবজ্যোতি শইকীয়া


Principal
Bahona College

তৃতীয় বাৰ্ষিক, অৰ্থবিজ্ঞান বিভাগ
বাহনা মহাবিদ্যালয়, ২০১৬ চন।


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Introduction

ভেতৰত সাজখৰা বিচৰন ব্যৱস্থা বিম্বুৰ টিচৰত সৰ্ব্বতঃ সতৰ্কতা প্ৰদায় বিচৰন ব্যৱস্থা। এই ব্যৱস্থা ভেতৰ সতৰ্কতাৰ প্ৰায় মন্ত্ৰালয়, প্ৰায় ভাৰ-সাজখৰা বিচৰনত দৃষ্টি আৰ্হি দিছিল। ১৯৭৩ চনত ভাৰতী স্মৃতিত ভাৰত কৰা এই ব্যৱস্থা আৰ্হি লৈবত কৰলত বিলৈবকৈ লৈব শাৰ্হিক্যত ৭০ ভাগত ইয়াৰ সন্ত্ৰমাণত প্ৰতিষ্ঠা হয়। কৰ্হিক্য সতৰ্কতাৰ জৰ্হিত ই দুৰ্হায়া লৈবকৰালৈ ভাৰতক্য প্ৰায় ভাৰ বিচৰন কৰে। এই ব্যৱস্থাত বিচৰন কৰা ভাৰতক্য হ'ল গুই, চাৰ্হি, বৌ, কুৰ্হাৰি ভাৰ।

ভেতৰত প্ৰায় মন্ত্ৰালয় সাজখৰা বিচৰন ব্যৱস্থা প্ৰতিষ্ঠা কৰে। কুৰ্হাৰি ভাৰ-কৰ্হিক্য সতৰ্কতা সন্ত্ৰমাণত প্ৰায় বিচৰনত ভাৰতক্য সন্ত্ৰমাণ প্ৰতিষ্ঠা হয়। ইয়াৰ প্ৰায় সন্ত্ৰমাণত সতৰ্কতা ব্যৱস্থাপনা বিলৈব-ভাৰ কৰা হয়।

সাজখৰা বিচৰন ব্যৱস্থাই এটি দুৰ্হায়া কৰালত ভাৰত প্ৰতিষ্ঠা কৰি ভাৰত সন্ত্ৰমাণ ভাৰতক্য নাই। ভাৰতক্য এটি দুৰ্হায়া লৈবক্যত ভাৰত ভাৰতক্য সন্ত্ৰমাণত বিচৰন কৰাত সন্ত্ৰমাণত সন্ত্ৰমাণ হ'ল লৈব বিলৈব, ভেতৰত বিচৰন ব্যৱস্থাই প্ৰায় সন্ত্ৰমাণত ভাৰতক্য

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জাতিয় বিলম্ব দুৰ্ব্বিক্ৰম কৰ্তৃ য়েত:- জাৰ্ণি, চাৰ্টেল, ব্ৰৌ আৰু ক্ৰেজাৰ্টিন এই কেইবাটাও বিচৰন কৰণ কৰা। লেচা ক্ৰেজাৰ্টিন সম্বন্ধীয় অনুসন্ধান বৰ্তমান দেশত স্তৰন কৰ্তে জাতিয়ত স্কলত স্কলত দেশখনত য়েতাদি এই প্ৰক্ৰমা কৰা বিচৰন কৰণত ব্যৱহাৰ কৰা হৈছে। এই অনুসন্ধানত য়েতাদি এই প্ৰক্ৰমা কৰা সম্বন্ধীয় লেচাৰত প্ৰক্ৰ Blue card ত য়েতাদি স্কল লেচাৰ বিচৰন কৰণত ব্যৱহাৰ কৰা হৈছে। তিনিবিধ অৰ্থসংস্কাৰ সম্বন্ধীয় জন-সম্বন্ধীয় সম্বন্ধ বিচৰন কৰণত ব্যৱহাৰ ১৭৫৫ ত Act ত জাতিয়ত কৰা হৈছে। ই বৰ্তমানত স্কলত। জেন কৰ্ত প্ৰক্ৰমাৰ কৰণত কৰা হৈছে ১৬.০৪.২০০৫ জাতিয়ত প্ৰক্ৰমা সম্বন্ধীয় স্কলত য়েতাদি নিৰ্ণয়ন কৰা হৈছে -


Commodity	APL	BPL	AAJ
wheat (per kg.)	২.৫০	৩.৬০	২.০০
Rice (per kg.)	৪.৬০	৫.২০	৩.০০
Sugarc (per kg.)	non entitled	১২.৫০	১৩.৬০
Kerosene oil (Lit)	৯.০৪	৯.০৪	৯.০৪

অৰ্থসংস্কাৰ প্ৰক্ৰমা:-
 জাতিয় বিচৰন ব্যৱহাৰত স্কলত জাতিয়ত সম্বন্ধীয় উল্লেখ কৰা হৈছে নাই প্ৰমা প্ৰমাৰ কৰণত প্ৰমাৰ

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সালিকা - ৩
 বিছন্দৰ জাতিৰ এড উৎপাদন

Items	Total amount of consumption	Total PDS	Average consumption
Rice	1275	486	38.11%
Sugarc	171	505	33.05%
Kerosene oil	135.5	121	89.29%
Atta	109	9	5.33%

অসমৰ বিছন্দৰ জাতিৰ এড উৎপাদনৰ ক্ষেত্ৰত প্ৰধানকৈ ক্ৰমাৎকৃত উৎপাদনৰ পৰিমাণ সৰ্বাধিক ৪৭.২৭ শতাংশ আৰু আৰম্ভণি সৰ্বনিম্ন ৫.৩৩ শতাংশ। উক্ত উৎপাদনৰ পৰিমাণ নগ্ন্য কৰি আমি দুলভাশীলক-ভাৱে পৰ্যাপ্ত হৈছিল উৎপাদনৰ পৰিমাণ সৰ্বাধিক জাতি আৰু বিছন্দৰ জাতিৰ ক্ষেত্ৰত প্ৰায় সমান। উল্লেখ্য হৈছে উৎপাদনৰ পৰিমাণে প্ৰায় সমানস্বৰূপ। ক্ৰমাৎকৃত উৎপাদনও প্ৰায় সমানস্বৰূপ। অসমত আৰম্ভণিৰ ক্ষেত্ৰত সৰ্বাধিক জাতিয়ে একেধাৰে উৎপাদন কৰা নাই আৰু বিছন্দৰ জাতিৰ লোকসকলে উৎপাদন কৰিছে যদিও ইয়াত পৰিমাণ কম। ইয়াত পৰা বৰ নাই যে আৰম্ভণিৰ ক্ষেত্ৰত নিম্নমানৰ বোকা বাবে ইয়াত উৎপাদনৰ পৰিমাণ কম।

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আলোচনাৰ বিষয়

বাহনা মহাবিদ্যালয়ৰ ছাত্ৰ- ছাত্ৰী সকলৰ অৰ্থনৈতিক প্ৰেক্ষাপট
(বাহনা মহাবিদ্যালয়ৰ এক ক্ষেত্ৰ ভিত্তিক অধ্যয়ন)



তত্ত্বাবধায়ক-

ড° বফিক আহমেদ
অৰ্থনীতি বিভাগ

প্ৰস্তুতকৰ্তা -

শ্ৰী বন্দনা ভূঞা
শ্ৰী বাজশ্ৰী দত্ত
শ্ৰী দেৱাশীষ দত্ত

পঞ্চম বার্ষিক, অৰ্থনীতি বিভাগ
বাহনা মহাবিদ্যালয়, ২০১৮।

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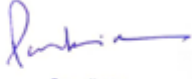
পৰ্যটন :-

ঊচ্চ শিক্ষা লাভত বিভিন্ন কক্ষকে প্ৰেৰণ পেলায়। তৰ লিভৰত প্ৰদৰ্শন কক্ষকোৱে ইল অৰ্থনৈতিক কক্ষক। অৰ্থনৈতিক কক্ষক সুলি কৰ্ত্তে পৰিয়াল বিলাকৰ অৰ্থনৈতিক অৱস্থাৰ সুজোৱা হয়। কক্ষক ঊচ্চ শিক্ষা লাভ কৰিবলৈ স্বৰ্গতে বিভিন্ন দিশত থাকে উদ্ভৱ হয়। পাঠ্যক্ৰমৰ পৰা অৱলম্ব কৰি সম্ভৱতৰ- প্ৰকৃ, প্ৰেক্ষিতৰ জ্ঞান ইত্যাদি ইত্যাদি। সেয়েহে বিভিন্ন অৰ্থনৈতিক জ্ঞান পৰিষ্কাৰত প্ৰথম পাইছে যে কোনো এত অৰ্থনৈতিক অৱস্থাই সেই অৰ্থনৈতিক ঊচ্চ শিক্ষাৰ স্বৰ্গত নিৰ্দেশন কৰে। এতে এত উদ্দেশ্য অৰ্থনৈতিক জ্ঞান প্ৰদৰ্শন বাহনা মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰীৰ অৰ্থনৈতিক জ্ঞানৰ অৰ্থনৈতিক অৱস্থা ওপৰত অনুৰ্ণিত কৰিবলৈ স্বৰ্গ জালোচনা পৰামৰ্শ সুপ্ৰোভ কৰা হৈছে। ইয়াত এখন প্ৰকৃ কালিকতৰ- সম্ভৱতৰ অৰ্থনৈতিক অৱস্থাই অৰ্থনৈতিক অৱস্থা সন্মৰ্কে কৰণ কৰা হৈছে। স্বৰ্গ জালোচনা পৰামৰ্শ স্বৰ্গ উদ্দেশ্য ইল বাহনা মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰী-সকলৰ অৰ্থনৈতিক অৱস্থা সন্মৰ্কে কৰণ লাভ কৰা জ্ঞান ইয়াৰ লগত ঊচ্চ শিক্ষাৰ সন্মৰ্কে নি তাক পৰীক্ষা কৰি প্ৰেৰা।

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উদ্দেশ্য :-

- * বাহনা মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰীসকলৰ অৰ্থনৈতিক অৱস্থা সম্পৰ্কে বুজ লোৱা
- * পাঠ্যপুস্তকৰ ব্যৱহাৰে শিক্ষা ব্যয়ৰ অৱস্থানৰ নিৰ্ণয় কৰা।
- * অৰ্থনৈতিক অৱস্থাৰ লগত ষ্টুডেণ্টৰ শিক্ষাৰ সম্পৰ্ক কি ভাৱে পৰিলক্ষিত কৰা।

অধ্যয়ন পদ্ধতি :- বাহনা মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰীসকলৰ অৰ্থনৈতিক অৱস্থা সম্পৰ্কে এক সন্ধান কৰা হৈছে। এই সন্ধানত যাদুচিহ্নৰ প্ৰতিষ্ঠা পদ্ধতিৰে ৩০ জন ছাত্ৰ-ছাত্ৰী নিৰ্বাচন কৰি অনুসন্ধান কৰা হৈছে। পূৰ্ব অৱস্থত প্ৰধান প্ৰশ্ন তালিকাৰ বিধিত নিৰ্বাচিত ছাত্ৰ-ছাত্ৰী সকলৰ পৰা তথ্য সংগ্ৰহ কৰা হৈছে আৰু ইয়াৰ প্ৰতি তথ্য "সাময়িকভাৱে প্ৰশ্নোত্তৰ" আধাৰত বিবেচনা কৰা হৈছে। এই বিবেচনাত "জাতকৰ্মৰ কাৰ" নিৰ্ণয়ৰ ইত্যাদি দৰে প্ৰশ্নোত্তৰ প্ৰতিষ্ঠা পদ্ধতি প্ৰয়োগ কৰি ফলস্বৰূপে সন্ধান নিৰ্বহন কৰা হৈছে।

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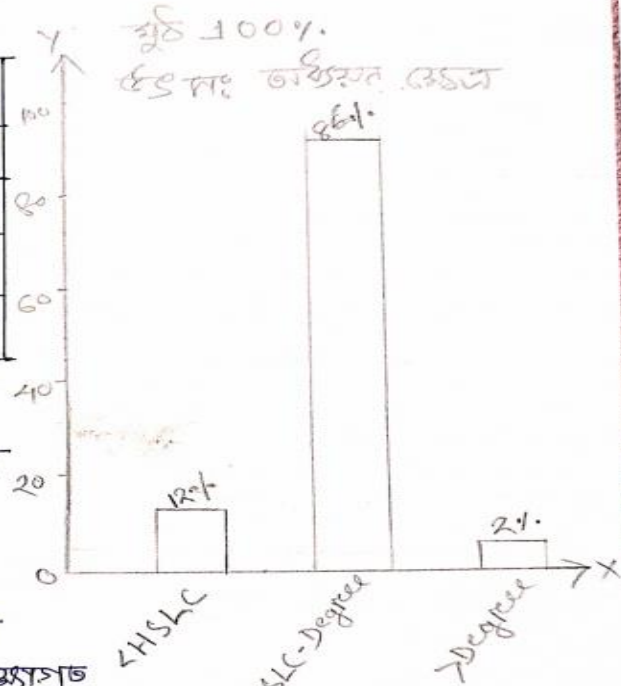


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তললোমচনোকৰ প্ৰদৰ্শন শিঙনৰ নমুনা →

A) অৰ্থসূত্ৰৰ অন্তৰ্ভুক্ত জাৰ-ছাৰী সকলৰ সৰ্বশৰণ কৰি :-
 তালিকা ২ :- অৰ্থসূত্ৰৰ অন্তৰ্ভুক্ত জাৰী আৰু ছাৰী সকলৰ
 পৰিমাণৰ সূচকীয় শিঙনত অৰ্থসূত্ৰৰ গুণগত স্বৰূপ -

Level of HH Edu.	%
< HSLC	12.00
HSLC-Degree	86.00
> Degree	2.00
Total	100.00



ওপৰত তালিকাৰ
 পৰা দেখা গৈছে যে সৰ্বনা
 অধিক শিক্ষাৰ্থীৰ জাৰী-ছাৰী
 সকলৰ H.S.L.C তলৰ শিঙ
 শিঙনত অৰ্থসূত্ৰৰ
 সূচকীয় গুণগত স্বৰূপ
 হৈছে 12%। H.S.L.C-Degree শিঙনত
 অৰ্থসূত্ৰৰ সূচকীয় গুণগত স্বৰূপ
 হৈছে 86%। Degree
 তলৰ শিক্ষাৰ্থীৰ
 গুণগত স্বৰূপ হৈছে 2%।

Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Economics [Page 4]

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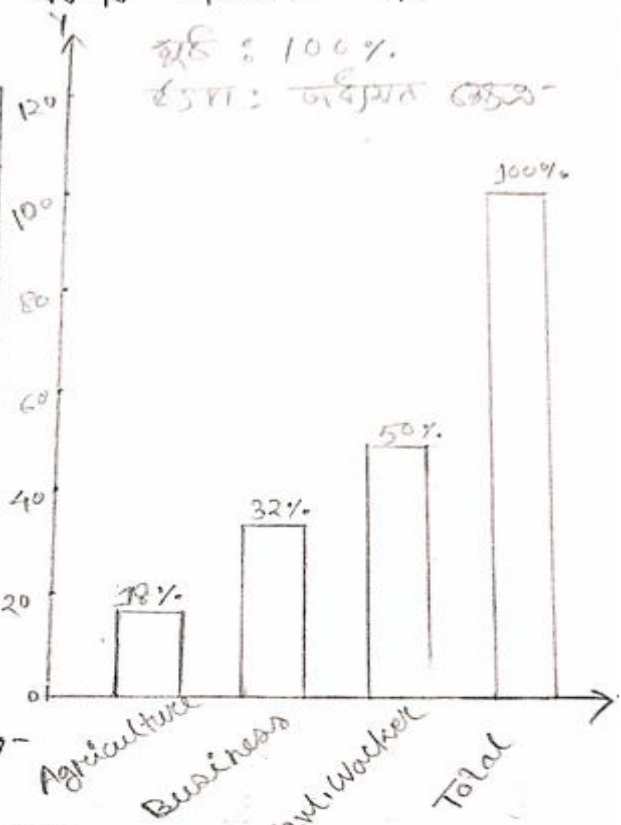
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তালিকা ২ঃ- অতিমাত্রা অন্তর্ভুক্ত ছাত্র-ছাত্রীসকলৰ পৰিচালন
 বিলাসকৰ- স্কুল জীৱিকাৰ ধৰণৰ পাতকতা হাৰ -

Main Occupation	%
Agriculture	18.00
Business	32.00
Govt. Worker	50.00
Total	100.00



ওপৰৰ তালিকাৰ
 পৰা চমকনা গৈছে যে
 জমি অধ্যয়নৰ বাবে বাদি
 মোতা বাহনা মহাবিদ্যালয়ৰ
 ছাত্র-ছাত্রী ৩০ জন - ছাত্র -
 ছাত্রীৰ পৰিচালনবিলাকৰ -
 হিতৈষ ১৪ জনৰ পৰিচালনৰ -
 স্কুল জীৱিকা হৈছে ৪ শতাংশ
 বৃষ্টি ১ ৩২ জনৰ পৰিচালনৰ -
 স্কুল জীৱিকা হৈছে ব্যৱসায়ৰ
 বাবে বাকী ৩০ জনৰ
 হৈছে চৰকাৰী চাকৰিয়াল ।

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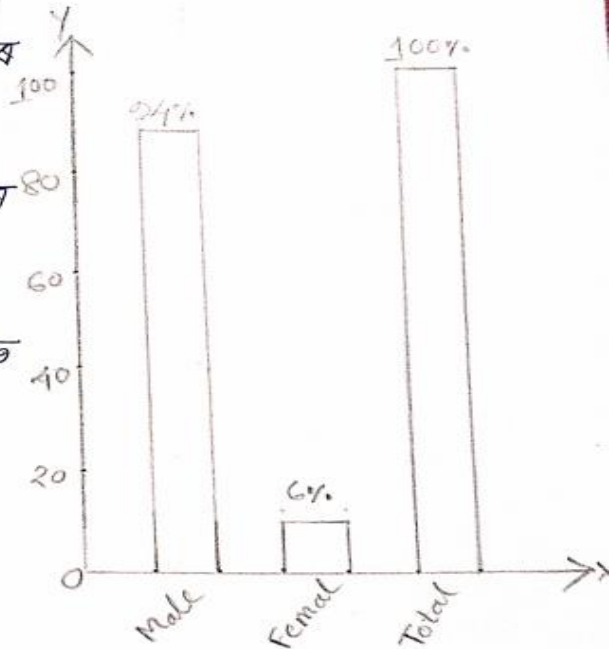
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তালিকা ৩ :- অৰ্থহীনৰ অন্তর্ভুক্ত ছাত্র-ছাত্রীসকলৰ শিক্ষান
বিলাকৰ স্কুল জীৱিকাত অৰ্হিত শৰণ মনস্কৰ শতকৰা
হাৰ —

Person	%
Male	94.00
Female	6.00
Total	100.00

আলোচনা :- ওপৰৰ তালিকাৰ
পৰা দেখা গৈছে যে
জাতি অৰ্থহীনৰ বাবে ছোৱালী
স্কোলাৰ শহনা মহাবিদ্যালয়ৰ
হও জন-ছাত্র ছাত্রীৰ
শিক্ষান বিলাকৰ হিতৰত
১৪ ৪ স্কুল জীৱিকাত অৰ্হিত
শৰণ শতকৰা
হাৰ হৈছে ৯৪%। জাতি
স্কিনাৰ শতকৰা হৈছে
৬%।



মুঠ 100%।
সেইমতে অৰ্থহীনৰ শতকৰা


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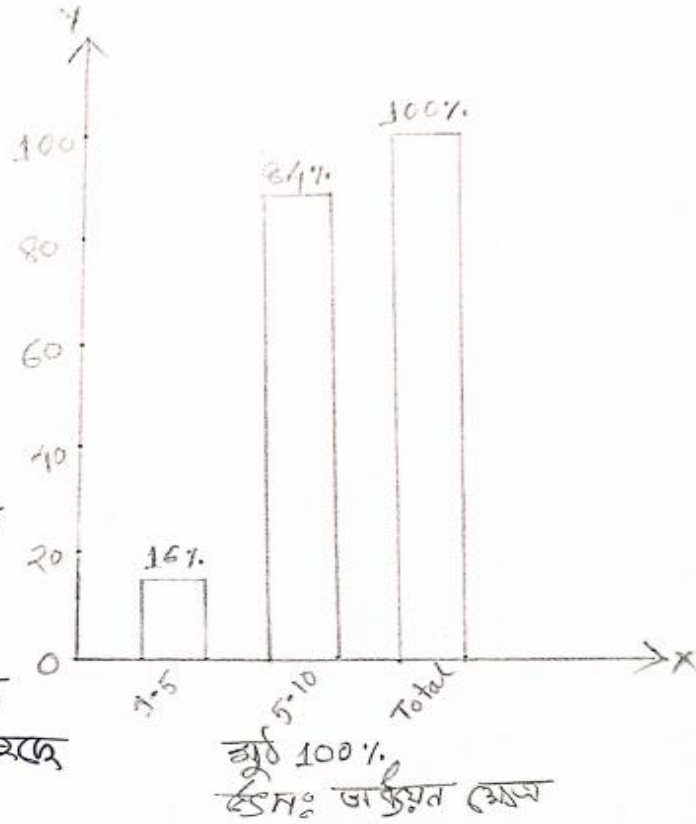


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তালিকা ১ঃ - তথ্যস্বত্ব অন্তর্ভুক্ত করা - দ্বারা সঞ্চালিত
পরিয়াল বিলাপকৃত মূল কারিকমত সড়ে দিলে
শেষ কৰা সময় (ঘণ্টা) ক মতকৰা হাৰ -

Time (hours)	%
1 to 5	16.00
5 to 10	84.00
Total	100.00



মাল্যমোঃ - ওপৰত
তালিকাৰ পৰা দেখা
গৈছে যে মূল কারিকমত
দিলে 1-5 ঘণ্টা সময়
শেষ কৰাৰ মতকৰা
হাৰ হৈছে 16%. অন্য
5-10 ঘণ্টা সময় শেষ
কৰাৰ মতকৰা হাৰ হৈছে
84%।

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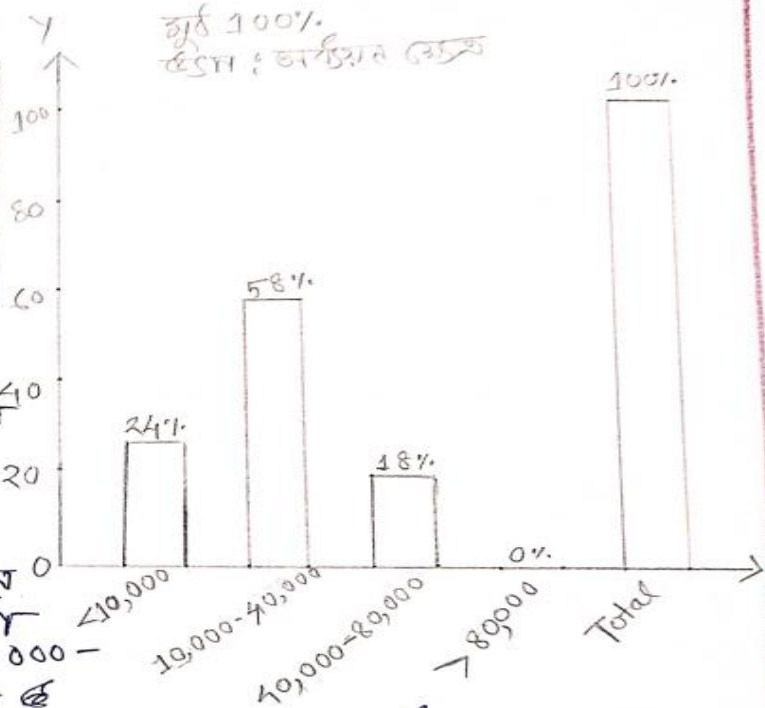

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তালিকা ৫ :- অধ্যয়ন অন্তর্ভুক্ত ছাত্র - ছাত্রীসকলৰ পৰিয়াল
 বিন্যাসৰ মূল্য জীৱিকাৰ পৰা হোৱা মাহিলী উপাৰ্জনৰ
 ক্ষতক্ষতি হ'ব -

Income	%
<10,000	24.00
10,000-40,000	58.00
40,000-80,000	18.00
>80,000	0.00
Total	100.00



তুলনামূলক :- ওপৰত
 তালিকাৰ পৰা দেখা
 গৈছে যে পৰিয়াল
 বিন্যাসৰ 10,000
 তলত মূল্য জীৱিকাৰ
 পৰা মাহিলী উপাৰ্জন
 হোৱা জন্মৰ ক্ষতক্ষতি
 হ'ব হৈছে 24%। 10,000 -
 40,000 টকা মাহিলী
 উপাৰ্জন হোৱা জন্মৰ ক্ষতক্ষতি হ'ব হৈছে 58%।
 40-80 হাজাৰ টকা উপাৰ্জন হোৱা জন্মৰ ক্ষতক্ষতি
 হ'ব হৈছে 18%। অৰ্থাৎ 80 হাজাৰৰ ওপৰত মাহিলী
 উপাৰ্জন হোৱা জন্মৰ ক্ষতক্ষতি হ'ব হৈছে মূল্য '0'।
 ইয়াৰ পৰা দেখা গৈছে যে অধ্যয়নবিন্যাসৰ পৰিয়ালেই
 হৈছে মৰ্যবিশিষ্ট পৰিয়াল।

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তালিকা ৬ :- অবস্থার অন্তর্ভুক্ত ছাত্র-ছাত্রীসকলৰ
 পৰিয়ালবিন্যাসৰ উপৰোৱা কাৰিকৰৰ বিষয়ৰ মতকথা
 হাও -

Others Occupation	%
Agriculture	40.00
Business	8.00
Total	48.00

মুঠ 100%
 উদাহৰণ: অবস্থার
 ক্ষেত্ৰ

তালিকা ৬ :- জাৰি অবস্থার কাৰি দেখিবলৈ পাইলে
 মে জাৰি গাঢ়িলোৱা হও তৰ - জাত ছাত্ৰীৰ
 পৰিয়াল বিন্যাসৰ ক্ষেত্ৰত মাজ ২৭ টা পৰিয়াল
 হৈ অৰ্থাৎ ৭৪% হৈ উপৰোৱা কাৰিকৰ লমত
 তুলি। ইয়াত উপৰোৱা কাৰিকৰ মুঠ তুলি
 পৰিয়ালৰ মতকথা হাও হৈছে ৭০% অৰ্থাৎ
 ৪৭% হৈছে ব্যৱসায়ৰ লমত তুলি।

তালিকা ৭ :- অবস্থার অন্তর্ভুক্ত ছাত্র-ছাত্রীসকলৰ
 পৰিয়ালবিন্যাসৰ উপৰোৱা কাৰিকৰত তুলি
 মনুষ্যৰ মতকথা হাও -

Person	%
Male	30.00
Femal	30.00
Total	60.00

উদাহৰণ: অবস্থার
 ক্ষেত্ৰ

তালিকা ৭ :- জাৰি অবস্থার কাৰি দেখিবলৈ পাইলে
 মে পৰিয়ালবিন্যাসৰ উপৰোৱা কাৰিকৰত তুলি
 অৰ্থাৎ মনুষ্যৰ মতকথা হাও মনুষ্য। অৰ্থাৎ উপৰোৱা
 কাৰিকৰত তুলি মুঠ মতকথা হাও হৈছে ৩০%
 অৰ্থাৎ মহিলাৰ মতকথা হাও হৈছে ৩০%।

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তালিকা ৪ :- অর্থহীনৰ অন্তর্ভুক্ত দ্বাৰা-দ্বাৰীমতলৰ পৰিস্থাল
 বিলাকে উপকৰণা জীৱিকতা দিলে ঋতু কৰা সময়
 পাতকতা হাৰ —

Time (hours)	%
1-2	38.00
3-4	10.00
Total	48.00

মুঠ ১০০%
 উদাহৰণ: অর্থহীনৰ ক্ষেত্ৰ

উল্লেখ্য :- ওপৰৰ তালিকাৰ পৰা দেখা গৈছে যে
 উপকৰণা জীৱিকতা দিলে ১-২ ঘণ্টা সময় ঋতু
 কৰা পৰিস্থালৰ পাতকতা হাৰ হৈছে ৩৪%। তদুপৰি
 ৩-৪ ঘণ্টা সময় ঋতু কৰা পৰিস্থালৰ পাতকতা
 হাৰ হৈছে ১০%। উপকৰণা জীৱিকতা দিলে ঋতু কৰা
 সময়ৰ মুঠ পাতকতা হাৰ হৈছে ৪৪%।

তালিকা ৭ :- অর্থহীনৰ অন্তর্ভুক্ত দ্বাৰা-দ্বাৰীমতলৰ পৰিস্থাল
 বিলাকে উপকৰণা জীৱিকতাৰ পৰা হোৱা মাহিলী-উপকৰণ
 পাতকতা হাৰ —

Income	%
< 1,000	8.00
1,000 - 2,500	28.00
2,500 - 5,000	12.00
Total	48.00

মুঠ ১০০%
 উদাহৰণ: অর্থহীনৰ ক্ষেত্ৰ

উল্লেখ্য :- ওপৰৰ তালিকাৰ পৰা দেখা গৈছে যে
 পৰিস্থালবিলাকে ১,০০০ তলত উপকৰণা জীৱিকতাৰ পৰা
 মাহিলী উপকৰণাৰ পাতকতা হাৰ হৈছে ৪%। ১,০০০-২,৫০০
 টকা মাহিলী উপকৰণাৰ পাতকতা হাৰ হৈছে ২৪%।
 তদুপৰি ২,৫০০ - ৫,০০০ টকা মাহিলী উপকৰণাৰ
 পাতকতা হাৰ হৈছে ১২%।

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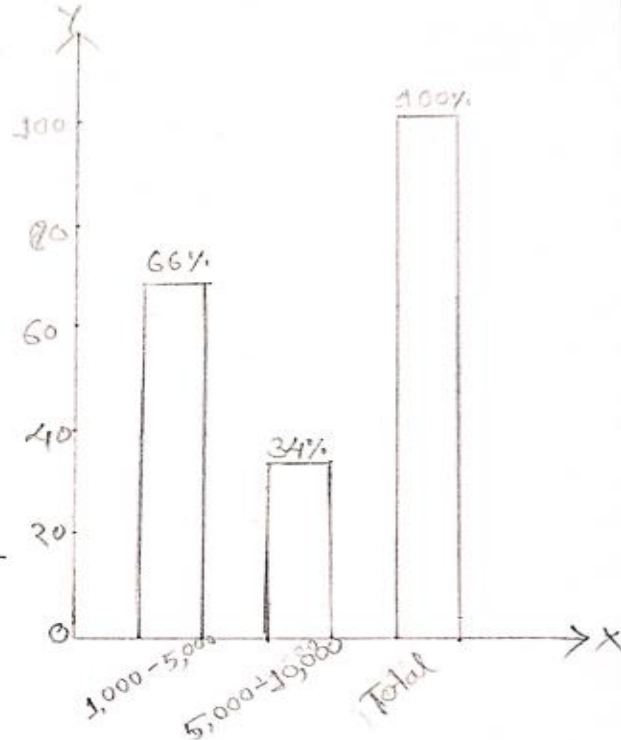


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তালিকা ১০ :- অর্থায়নৰ অন্তর্গত দায়-দায়ী পক্ষৰ
 পৰিস্থিতিৰ লোভনতলে স্বহেলি খোৱাৰোৱা, শিক্ষা
 আৰু স্বাস্থ্য ক্ষেত্ৰত কৰা ব্যয়ৰ শতাংশ হ'ব -

i) খোৱাৰোৱা ক্ষেত্ৰত ব্যয়

Expenditure	%
1,000 - 5,000	66.00
5,000 - 10,000	34.00
Total	100.00



তালিকা :- তালিকাৰ
 পৰা দেখা গৈছে যে
 পৰিস্থিতি বিলাকৰ- দ্বিতীয়
 অংশীদাৰী খোৱাৰোৱা
 ক্ষেত্ৰত 1,000 - 5,000 টকা
 ব্যয় কৰে 66% লোকে
 আৰু 5,000 - 10,000 টকা
 খোৱাৰোৱা ক্ষেত্ৰত ব্যয়
 কৰে 34% লোকে।

মুঠ 100%
 উৎস : অর্থায়ন ক্ষেত্ৰ

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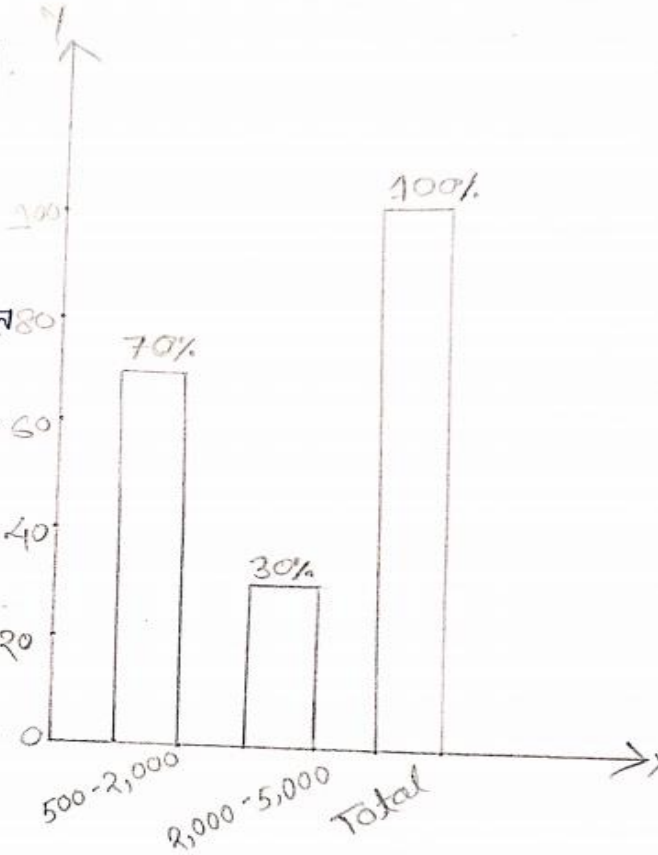
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(ii) শিক্ষা ক্ষেত্রে ব্যয়

Expenditure	%
৫০০-২,০০০	৭০.০০
২,০০০-৫,০০০	৩০.০০
Total	১০০.০০



অনুশীলনা : জনমি অধ্যয়ন
 কতি দেখিবলৈ পাঠিয়ে
 যে মহিলী শিক্ষা ক্ষেত্রে
 ৫০০ টাকার পরা ২,০০০
 টকা ব্যয় করে ৭০%
 পরিয়ালে অন্য সকল
 ৩০% পরিয়ালে শিক্ষা
 ক্ষেত্রে মহিলী ৩,০০০
 টাকার পরা ৫,০০০ টকা
 পর্যন্ত ব্যয় করে।

মুঠ ১০০%
 জনমি অধ্যয়ন ক্ষেত্রে

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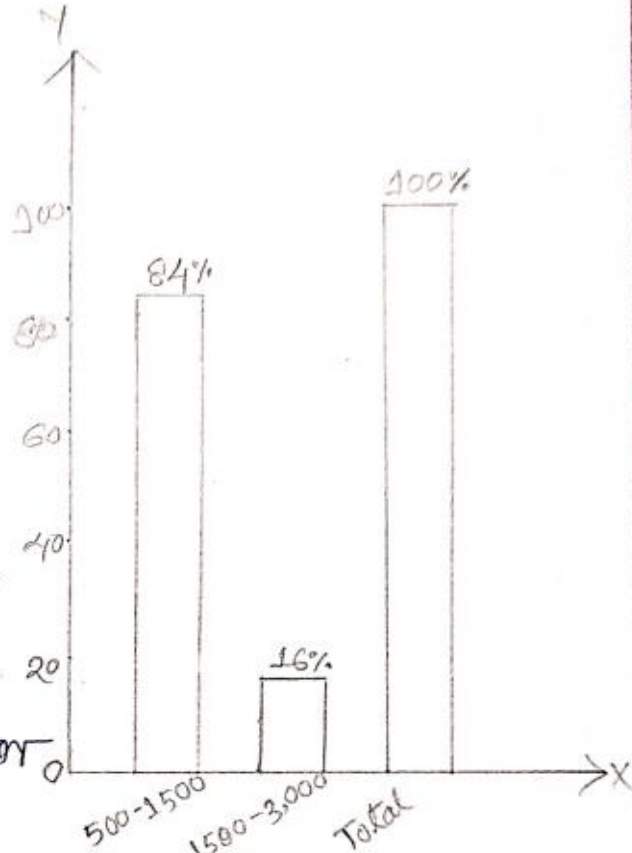
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iii) ব্যয় ক্ষেত্রে ব্যয় %

Expenditure	%
500-1,500	84.00
1,500 - 3,000	16.00
Total	100.00



লক্ষ্যণ্যঃ - তালিকাৰ
পৰা দেখা গৈছে যে
সৰ্বমুঠ ৪৪% ব্যয়
ক্ষেত্ৰে ৫০০ টকাৰ
পৰা ১,৫০০
টকা ব্যয় কৰে। বাকী
১৬% লক্ষ্যণ্যে ১,৫০০
টকাৰ পৰা ৩,০০০
টকা পৰ্যন্ত ব্যয়
কৰে।

মুঠ ১০০%
উৎস: জৰিয়ৰ ক্ষেত্ৰ

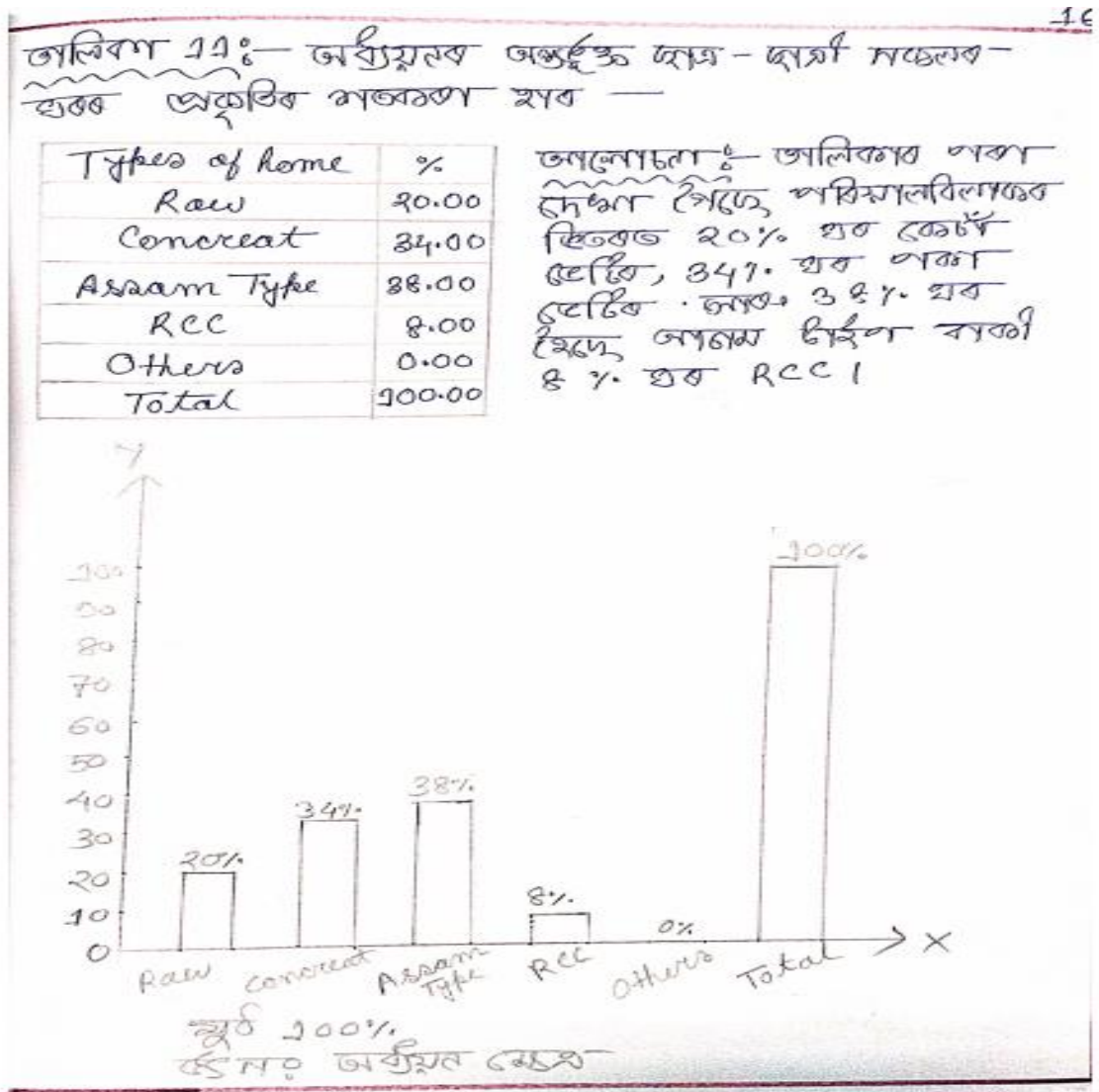


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Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Economics [Page 14]


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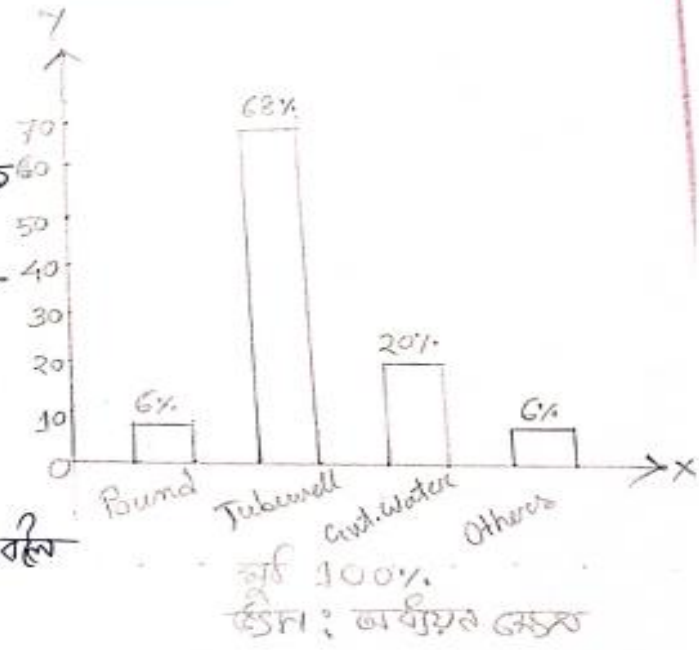


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ভালিকা ১২ঃ- অধ্যয়নৰ অন্তর্ভুক্ত হৈছে - জাহ্নবী নকলেৰ -
 পৰিস্থিতিবিলাসিতা - পানী নষ্ট হোৱাৰ প্ৰভাৱ হ'ব -

Water Connectivity %	
Pound	6.00
Tubewell	68.00
Cunt. Water	20.00
Others	6.00
Total	100.00

মাল্যপ্ৰণেতাঃ- জাহ্নবী
 অধ্যয়ন কৰি দেখিবলৈ
 পানীয়ে যে সৰ্বস্বত্ব
 লোকৰ অৰ্ধঃ ৬৪% ৰ
 পানী নষ্ট হোৱাৰ
 হৈছে চিহ্নেৰে ১২০%।
 লোকৰ চৰকাৰী পানী
 যোগান, ৬% লোকৰ
 পুখুৰী আৰু অন্যান্য
 পানী নষ্ট হোৱা দেখিবলৈ
 পোৱা গৈছে।



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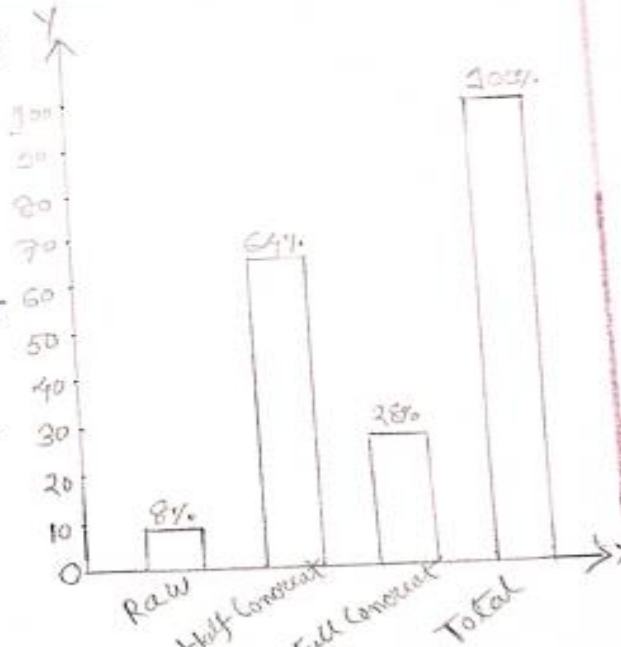


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তালিকা ১৩ :- অর্থসংক্রান্ত জ্ঞান-দুর্ভাগ্য পরিস্থিতিসমূহের
 জনসংখ্যা ব্যবস্থার প্রকৃতির পরিমাণ হার -

Types	%
Raw	8.00
Half Convert	64.00
Full Convert	28.00
Total	100.00

সাংক্ষেপে :- উপরোক্ত তালিকার
 পর্যায়ে দেখা গিয়েছে যে
 সর্বমোট জনসংখ্যার পরিমাণের
 মাত্র ৪% পরিমাণের
 জনসংখ্যা ব্যবস্থার প্রকৃতি
 হৈছে অর্ধ-পূর্ণ। ২৪%
 পরিমাণের জনসংখ্যা ব্যবস্থার
 প্রকৃতি পূর্ণ এবং
 বাকী ৬৮% পরিমাণের
 জনসংখ্যা ব্যবস্থার প্রকৃতি
 হৈছে অর্ধ-পূর্ণ।



মোট ১০০%
 জনসংখ্যা অর্থসংক্রান্ত

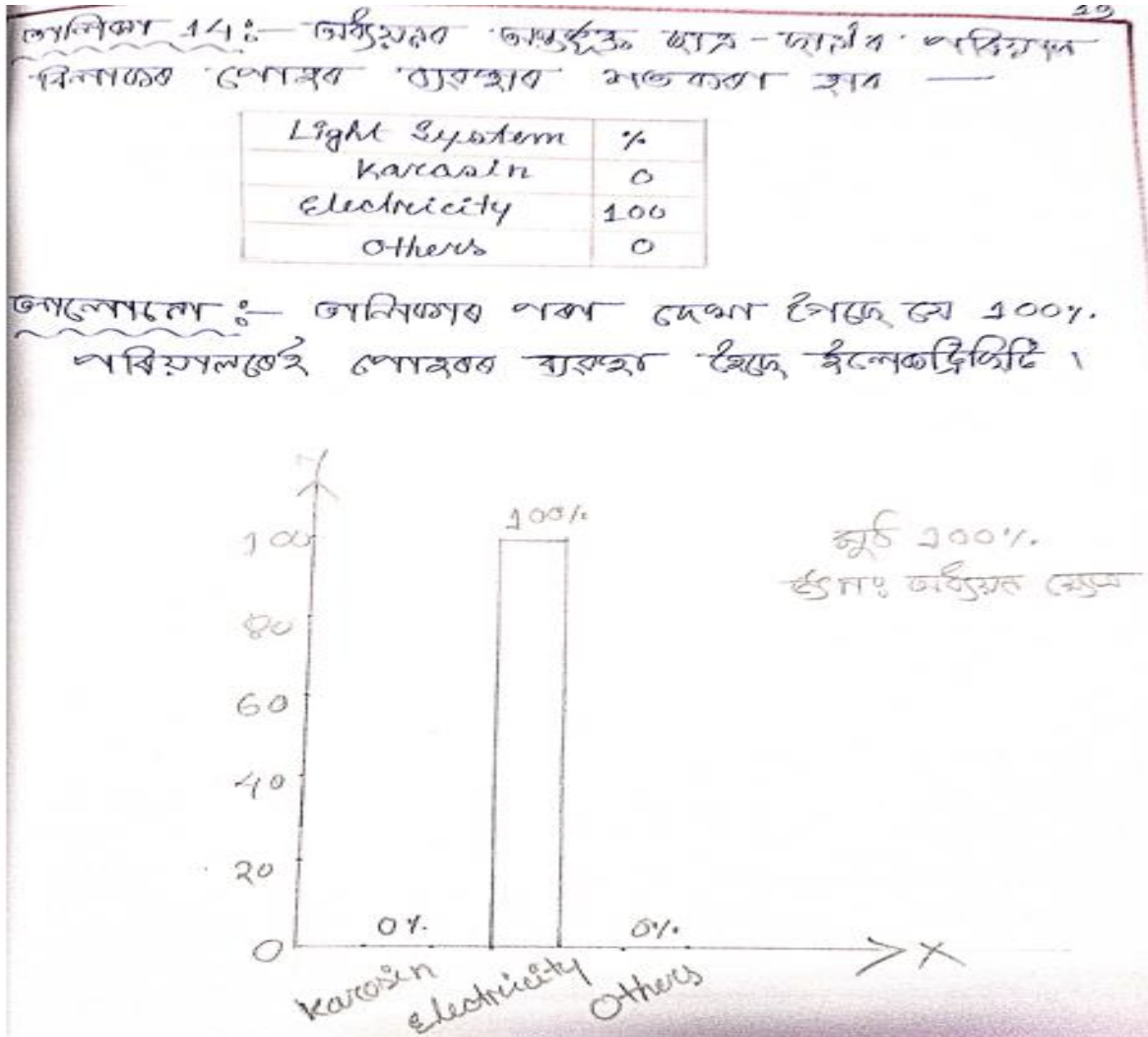
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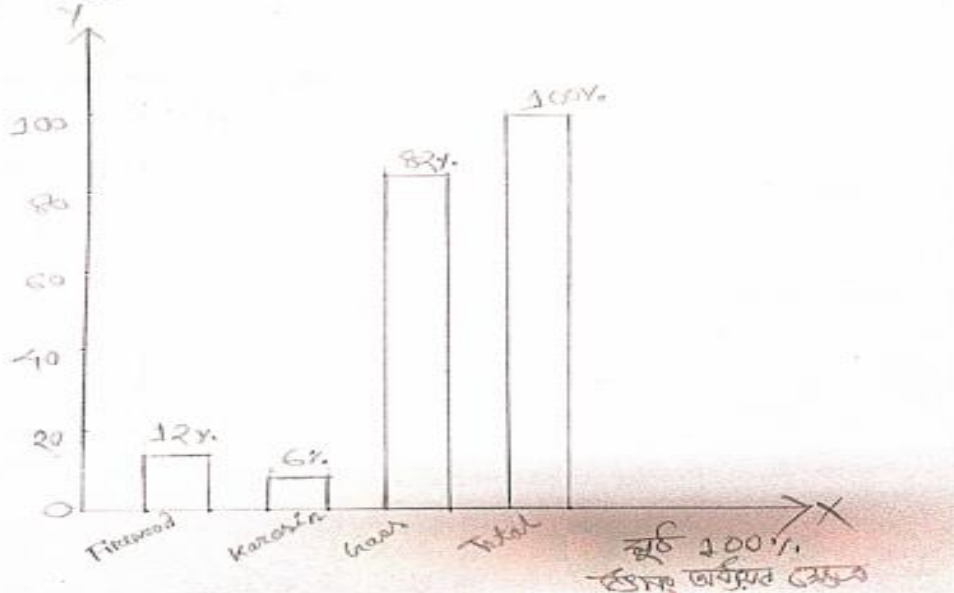
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তালিকা 15 :- জৰ্জয়তৰ তন্ত্ৰৰ জাগ-হাৰীপৰসৰ
পৰিমাণৰ ইন্ধন ব্যৱহাৰ শতকৰা হাৰ -

Provision of fuel	%
Fire Wood	12.00
Kerosin	6.00
Gas	82.00

উল্লেখ :- আমি জৰ্জয়তৰ কঠি দেখিবলৈ পাইছো যে
82% লোকেই ইন্ধন ব্যৱহাৰ হিচাপে বন্ধৰ গেছ ব্যৱহাৰ
কৰে যদিও বৰ্তমান সময়তো 6% লোকে ইন্ধনৰ বাবে গাৰি
তক 3% লোকে জেজাৰিৰ ব্যৱহাৰ কৰা দেখিবলৈ
পোৱা গৈছে।



Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Economics [Page 18]

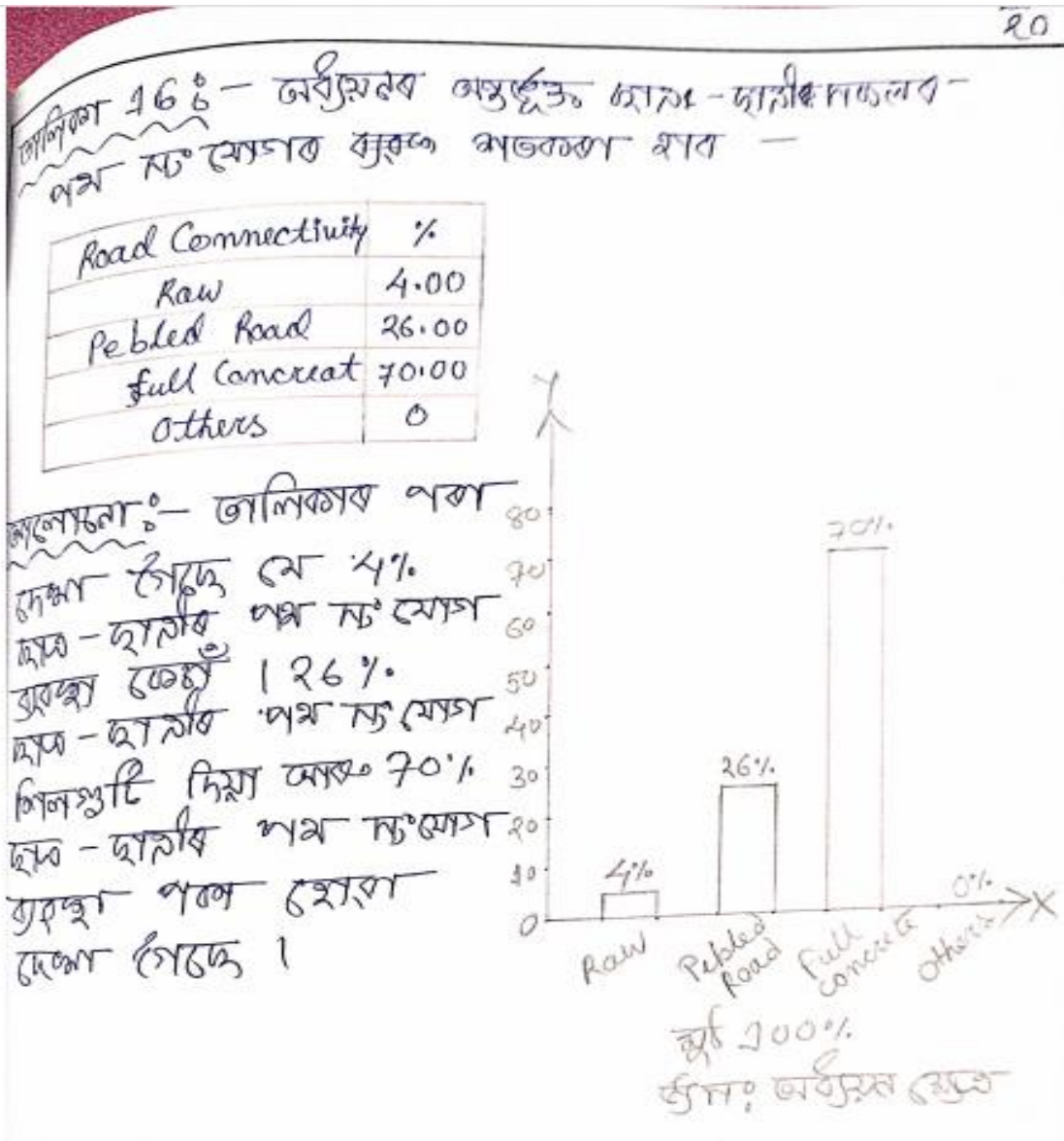

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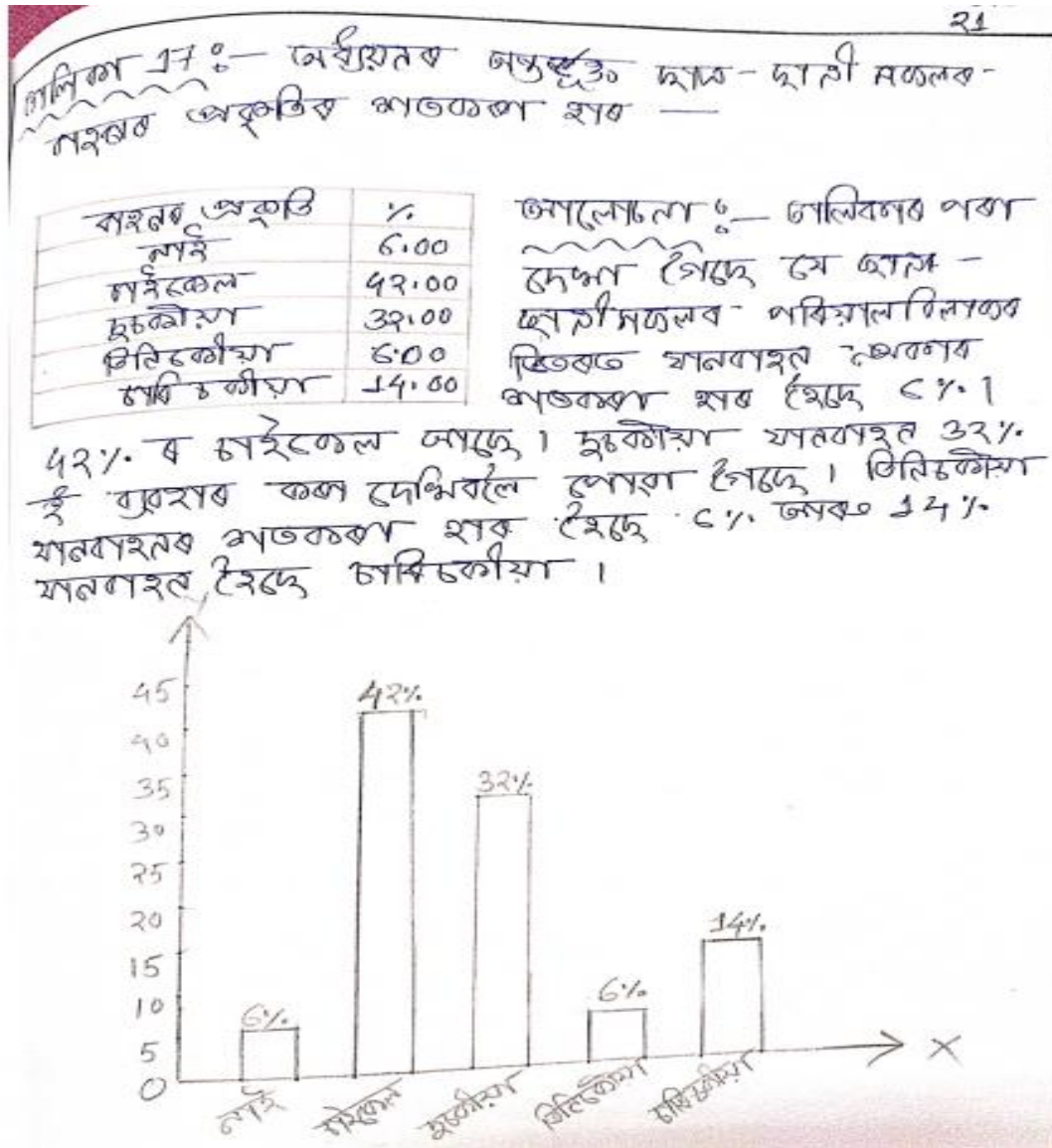
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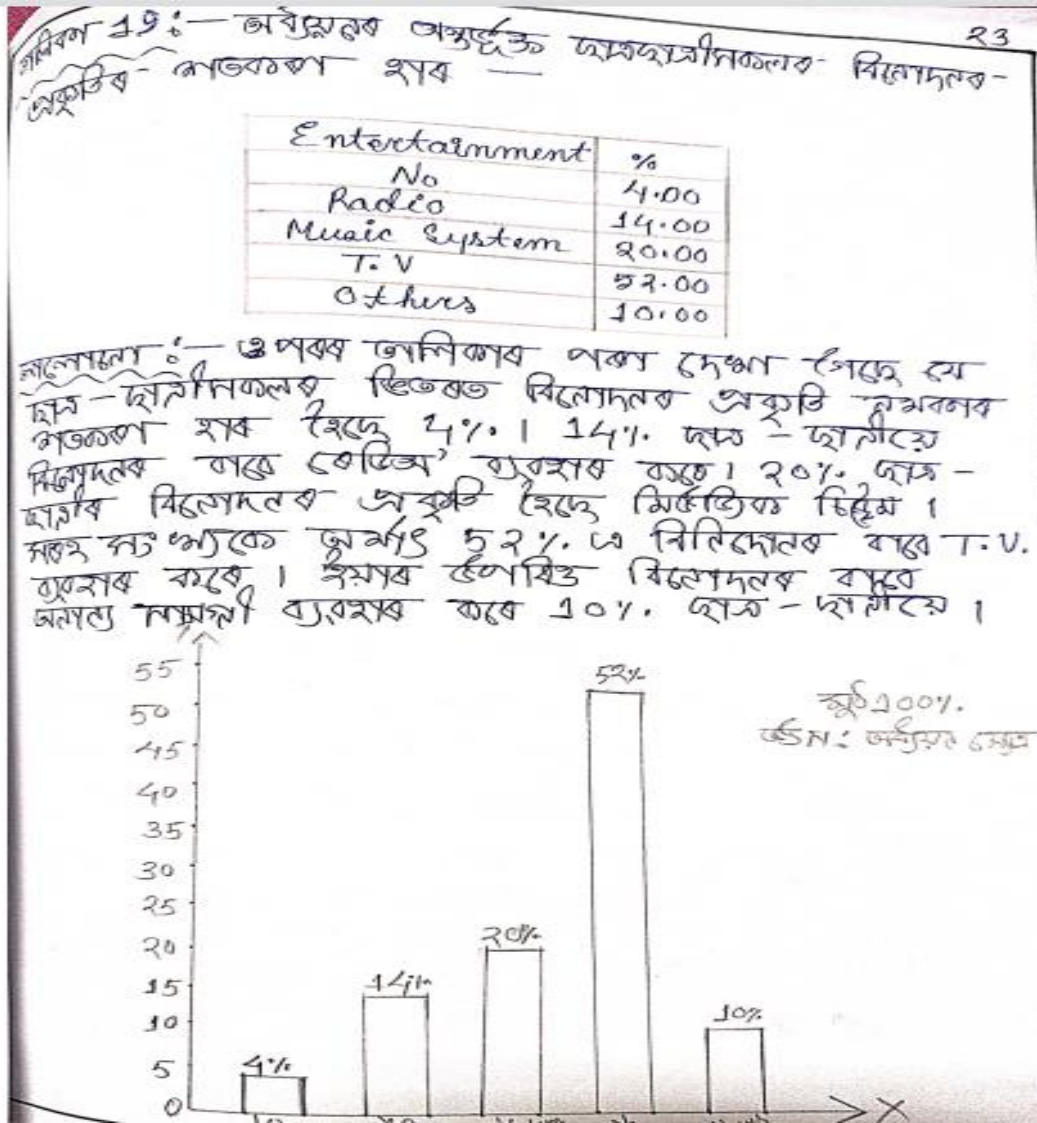


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বাহনা মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰীৰ অৰ্থনৈতিক প্ৰয়োজন
যি অধ্যয়ন কল্যাণ হৈছে তেওঁৰ পৰা এতিয়া
মিহ্মন উপলব্ধ হৈছে। সেইবোৰ হৈছে —
১) অৰ্থনৈতিক কৰি দেখিবলৈ পাইছে যে ছাত্ৰ-ছাত্ৰী
পৰিহালৰ ১২% ব্যৱসায় H.S.L.C পাছ কৰা
লগ্নি। H.S.L.C - Degree পাছ কৰা মুঠকৈ প্ৰত্যেক
হাৰ হৈছে ৪৫%। Degree ওপৰত গিম্মত
অৰ্থনৈতিক প্ৰত্যেক হাৰ হৈছে ২%।
২) মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰীৰ পৰিহালবিলাকৰ স্কুল
কীৰ্তিত পুৰুষ অৰ্থনৈতিক প্ৰত্যেক হাৰ হৈছে
অৰ্থনৈতিক ৩৫% পুৰুষ স্কুল কীৰ্তিত প্ৰত্যেক হৈছে।
কিন্তু অৰ্থনৈতিক কৰি দেখিবলৈ পাইছে যে পুৰুষ
প্ৰত্যেক হৈছে কম মাত্ৰক অৰ্থনৈতিক ৫% মাত্ৰক
স্কুল কীৰ্তিত প্ৰত্যেক হৈছে।
৩) অৰ্থনৈতিক কৰি দেখিবলৈ পাইছে যে মহাবিদ্যালয়ৰ
প্ৰত্যেক হাৰ-ছাত্ৰী অৰ্থনৈতিক পৰিহালৰ
৪) অৰ্থনৈতিক পৰা হৈছে যে মহাবিদ্যালয়ৰ
ছাত্ৰ-ছাত্ৰীমণ্ডলৰ পৰিহালবিলাকৰ প্ৰত্যেক হৈছে
স্কুল অৰ্থনৈতিক ৫ হাজাৰৰ পৰা ১০ হাজাৰ টকা
কৰি কৰা দেখিবলৈ পাইছে। কিন্তু
শিক্ষা হৈছে অৰ্থনৈতিক ২-৫ হাজাৰ টকা
কৰা হৈছে।


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১) বাহনা মহাবিদ্যালয়ৰ দ্বাৰা - জাৰ্মী বজাৰ - পৰিষ্কাৰ
 নিৰ্মাণৰ ক্ষেত্ৰত মনত পেলাবলৈ পঢ়াৰ ব্যৱস্থা
 কৰা হৈছে দেখা গৈছে। কিন্তু দেখা যায় যে নিৰ্মাণৰ
 ব্যৱস্থা পঢ়াৰ ক্ষেত্ৰত অধিক ব্যৱহাৰ কৰা হৈছে
 পঢ়াৰ ক্ষেত্ৰত হয়। সেয়েহে দ্বাৰা - দক্ষিণ পৰিষ্কাৰ
 ক্ষেত্ৰত কিছু পঢ়াৰ ব্যৱস্থা কৰা হৈছে
 দিয়া হৈছে।


২) জাৰ্মী অধ্যয়নৰ পৰা দেখিবলৈ গাইছে যে
 বাহনা মহাবিদ্যালয়ৰ দ্বাৰা - জাৰ্মী বজাৰ - পৰিষ্কাৰ
 ক্ষেত্ৰত 100% পৰিষ্কাৰ কৰা হৈছে
 হৈছে ইলেকট্ৰিফিকেশ্বন।

৩) অধ্যয়নৰ পৰা দেখা গৈছে যে মনত
 পেলাবলৈ ইয়াত বিচাৰে কৰা গৈছে
 কৰা যদিও বৰ্তমান মনত পেলাবলৈ ইয়াত
 পৰিষ্কাৰ কৰা হৈছে ব্যৱহাৰ কৰা
 দেখা গৈছে।

Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Economics [Page 24]


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সামগ্রিক :-

এখন দেশৰ অৰ্থনৈতিক কাৰকৰ লগত ষ্টুডেণ্ট শিক্কাৰ এক জড়প্ৰান্ত মনস্ক লগত। অৰ্থনৈতিক কাৰকত মূলি কালে দাবীপ্ৰাপ্তে প্ৰিয়ালব অৰ্থনৈতিক অৱস্থাৰ সুখা যায়। বিভিন্ন অৰ্থনৈতিক অৱস্থাৰ সন্মুখত প্ৰেক্ষা পাৰ্শ্বত যি প্ৰেৰণা এক অৱস্থাৰ অৰ্থনৈতিক অৱস্থাৰ সৈৰি অৱস্থাৰ ষ্টুডেণ্ট শিক্কাৰ হাৰুৰি নিৰূপণ কৰে। দেশৰ অৰ্থনৈতিক অৱস্থা বৈকীয়াল হলেহে ষ্টুডেণ্ট শিক্কাৰ লগত কৰি পৰা যায়। অন্য কাৰকত কৰলে গলে ষ্টুডেণ্ট শিক্কাৰ লগত কৰিলেহে অৰ্থনৈতিক অৱস্থা বৈকীয়াল হয়। দেশৰ ষ্টুডেণ্ট শিক্কাৰ লগত দেশৰ মানত বহুতো লোকে কৰি চাৰুপৰ লগত কৰে। মওবাত্ৰ অৰ্থনৈতিক অৱস্থা মুলে হোৱাৰ পৰা মুকলি হয়।

এই অৰ্থনৈতিক পৰা দেশি এটা কৰা কৰি বিচাৰে যে দেশ ছাৰীমতল যতে ষ্টুডেণ্ট শিক্কাৰ লগত পৰি অৱস্থাৰ হয় অৰ বাৰে অৱস্থাৰকামতলে ষ্টুডেণ্ট শিক্কাৰ লগত কৰি লগে। দেশৰ ষ্টুডেণ্ট শিক্কাৰ লগত কৰি কৰিহুতে ছাৰ-ছাৰী মতল দেশৰ অৰ্থনৈতিক অৱস্থা বৈকীয়াল কৰাত মহত্বক হিব

প্ৰাৰ্থনা সম্বল :-

১. ড° অম্বুজ্যোতী অৰিকৰ জ্যেতৰ প্ৰেক্ষাপটে ষ্টুডেণ্ট অৰ্থনৈতিক, ক্ষাতক মতল
২. ইন্টাৰনেট ৱেবছাইটে মহত্ব লোৱা হয়।


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**A Field Report
on
Hoollongapar Gibbon Sanctuary**



Submitted to -

Department of Zoology
Bahona College

[Signature]
Head,
Dept. of Zoology
Bahona College

Submitted by -

Name – Centwin Gogoi
Class – B.Sc 1st Semester
Roll No – 119
Session – 2021-22

Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Zoology [Page 1]

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CERTIFICATE

I hereby recommended that the field study report in Hoolongapar Gibbon Wild life sanctuary , Mariani , carried out under the supervision of our teacher to the accepted as full filling the requirement of the syllabus of B.Sc. 1st semester , Zoology(major) under Dibrugarh University . The report in my opinion is worthy for its approval guidance teacher.

ACKNOWLEDGEMENT

At the point of completion of our field study report I would like to pay my sincere thanks to our honourable teachers DR. Bikaramaditya Bakalial , DR. Parbin Iraqui ,DR. Rupjyoti Saikia and DR. Swarupa Bhattacharjee who accompanied us on this field study and for providing us valuable guidance and constructive criticism throughout the course if completion of our report . Finally I would like to thank my friends for their help to fulfil this field study report successfully.

Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Zoology [Page 2]


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INTRODUCTION

The Hoollongapar Gibbon Sanctuary, formerly known as the Gibbon Wildlife Sanctuary or Hoollongapar Reserve Forest is an isolated protected area of evergreen forest located in Assam, India. The sanctuary was officially constituted and renamed in 1997. Set aside initially in 1881, its forests used to extend to the foothills of the Patkai mountain range.

Since then, the forest has been fragmented and surrounded by tea gardens and small villages. In the early 1900s, artificial regeneration was used to develop well-stocked forest, resulting in the site's rich biodiversity. The Hoollongapar Gibbon Sanctuary contains India's only gibbons the hoolock gibbons, and Northeastern India's only nocturnal primate-the Bengal slow loris.

The upper canopy of the forest is dominated by the Hollong tree (*Dipterocarpus macrocarpus*), while the Nahar (*Mesua ferrea*) dominates the middle canopy. The lower canopy consists of evergreen shrubs and herbs.. The habitat is threatened by illegal logging, encroachment of human settlements, and habitat fragmentation.

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HISTORY

The Hoollongapar Gibbon Sanctuary derives from a patch of forest once part of the Hollongapar Reserve Forest in the civil district of Jarhat in Assam, India. Set aside as a "Reserve Forest" (RF) on 27 August 1881, it was named after its dominant trees species, Hoollong or Dipterocarpus macrocwpus. At the time, it was considered an "integral part" of the foothill forests of the Patkai mountain range. Although the sanctuary is currently completely surrounded by tea gardens and a few small villages, it Used to connect to a large forest tract that ran to the state of Nagaland. The protected area started with 206 ha (0.80 sq mi) and then shrank in 1896 as sections were de-reserved. As tea gardens began to emerge between 1880 and 1920, and villages were established during the 1960s to rehabilitate people from Majuli and adjoining areas who had lost their lands to floods, the forest became fragmented and the reserve became isolated From the foothills.

Historically, sporadic evergreen trees covered the area along with Bojalbamboos (*Pseudodactyium* sp). In 1924, artificial regeneration was introduced in an attempt to develop well-stocked, even-aged forest. These plantations Subsequently created a forest stocked with a rich variety of flora and fauna (biodiversity). During the 1900s, forest areas were added to the reserve, eventually

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totaling 2,098.62 ha (8.1sq mi) by 1997. However, the sanctuary remains fragmented into five distinct segment. On 30 July 1997, in notification no. FRS 37/97/31, the Sanctuary was constituted under the civil district of Jorhat and named it the "Gibbon Wildlife Sanctuary" after the only apes found in India : the hoolock gibbons (genus Hoolock). It is the only sanctuary India named after a gibbon due to its distinction for containing the densest gibbon populations in Assam. On 25 May 2004, the Assam Government renamed it as the Hoollongapar Gibbon Sanctuary" through notification no. FRP 37/97/20.



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FAUNA

The sanctuary has a very rich biodiversity and is home to the only apes in India, the western hoolock gibbon (Hoolock hoolock), as well as the only nocturnal primate found in the northeast Indian states, the Bengal slow lori (Nycticebus bengalensis). Other primates include the stump-tailed macaque (Macaca arctoides), northern pig-tailed macaque (Macaca leonina), eastern Assamese macaque (Macaca assamensis), rhesus macaque (Macaca mulatta), and capped langur (Trachypithecus pileatus). Also found at the sanctuary are Indian elephants, tigers (Panthera tigris), leopards (Panthera pardus), jungle cats (Felis chaus), wild boar (Sus scrofa), three types of civet, four types of squirrel, and several other types of mammal. At least 219 species of bird and several types of snake are known to live in the park.

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FLORA

The upper canopy consists mostly of Dipterocarpus macrocarpus rising 12 to 30 m (39 to 98 ft) and having straight trunks. Other species found in the top canopy include Sam(Artocarpschaplasts) , Amari(Anoorawalichi), Sop as (Mcheliai spp), Bhelu(Tetramelsmudiflora), Udal(Sterculiavillosa) and Hingori Castanopsis spp), Nahar (Mesug forrea) dominates the middle canopy with its spreading crown, casting fairly heavy shade over a wide area. Other species that make up the middle canopy include Bandordima (Dysoxylumprocerum), Dhuna (Conarimresi uiferur), Bhomora(Terminaliabelerica), FulGomari(Gmelina sp.) Bonbogri(Pterospermumlanceafoliuim), Morhal(Vaticalance afofia), Selleng(Sapiumbaccatum), Sassi(Aqualariagolacha), and Otenga(Dilleniaindica)

A variety of evergreen shrubs and herbs make up the lower canopy and ground layers. The most common of these are Dolu bamboo (Teinosstachyumdullooa) Bojal bamboo (Pseudostachyumpolymorphum), Jengu (Calamus erectus), Jati bet (Calamunus spp). Tora (Alpiniaallughas), Kaupat (Phryniumimbricatum) , and Sorat (Laportedcremulata). Bamboo spp), and Houka bet(calamus spp).

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CONSERVATION

The isolation of the park by numerous tea garden creates a geographic barrier for migrating animals. The growing populations of tea garden workers also threatens the habitat since many people rely on the forest for firewood, traditional medicine and food. Large quantities of leaves and grass are collected from the forest to feed cattle. During the rainy season, herbicides and pesticides from the tea garden wash through the sanctuary.

The tea garden are also used by elephant as a migration route to Nagaland, making them vulnerable to frequent poaching. Railway lines further divide the park, standing a single group of gibbon in the smaller fragment, illegal logging and encroachment by local people employed by the tea gardens degraded the habitat quality.

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CENSUS REPORT

According to a census conducted in 2010 by the Jorhat forest department, they recorded :

- 25 Bengal Slow Loris
- 41 Assamese Rhesus Macaques
- 33 Golden Langurs
- 75 Pig – Tailed Macaques
- 154 Capped Langurs
- 174 Stump tailed Macaques
- 95 Hoolock Gibbons

BIBLIOGRAPHY

The data of this field study report have been collected from the following source :

1. From office of Hollongapar Gibbon sanctuary.
2. Flora and Fauna from Wikipedia encyclopedia.
3. Various reference books.

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PHOTOGRAPH :-



way between Gibbon

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Hoolock tree



Medicine plant

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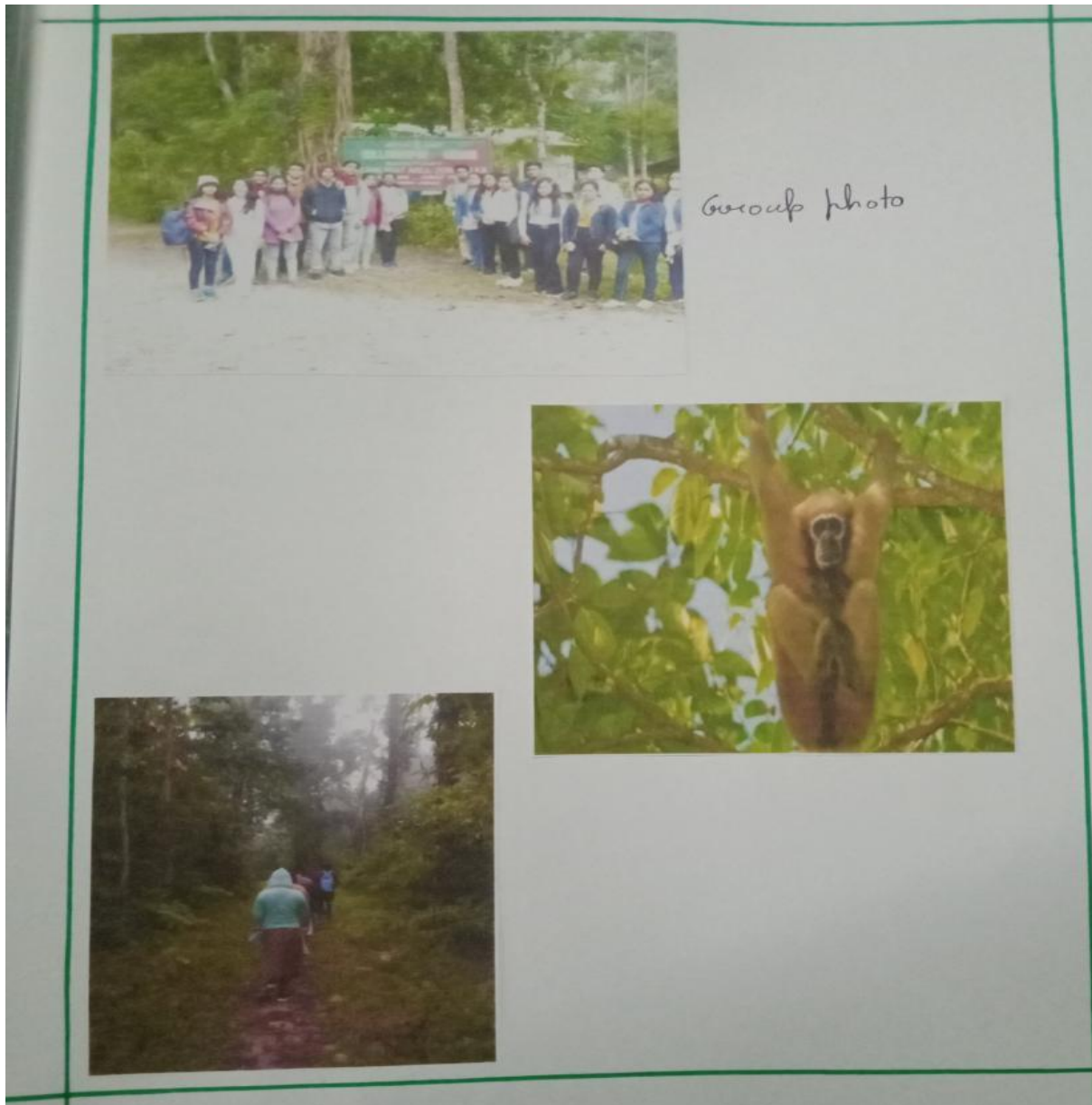


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Group photo

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A FIELD STUDY REPORT ON
KAZIRANGA NATIONAL PARK



Under Supervision Of:
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Head,
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Prepared By:
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5th Semester
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*Examined by
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19/11/2021*

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ACKNOWLEDGEMENT

We are sincerely thankful to our Principal sir Dr. Prasanna Kumar Dutta Sir for financial support and permission and also thanks to our Head of The Department Dr. Gayatri Agni Bora ma'am for arrangement. Thanks to our faculty Dr. Bikramaditya Bakalial Sir, Dr. Rupjyoti Saikia ma'am and Dr. Parbin Iraqi ma'am for support and guidance. Thanks to our team members for field data record as well as for report preparation. Thankful to the Park authority for granting student concession, jeep safari drivers for their active guidance. At last thanks to crew of Bus who safely picked up and dropped the team across the journey.

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
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CERTIFICATE

This is to certify that Miss Bishakha Bora, student of B.Sc. 5th semester bearing roll no. ৪২ has taken part in the field study trip to Kaziranga National Park under guidance and supervision of the faculties of Department of Zoology, Bahona College and has also submitted a report for the same.

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DESCRIPTION ABOUT THE JOURNEY

A visit to Kaziranga National Park was made on 7th January, 2021 by the students of 5th semester of zoology department of Bahona College at about 6.30 am. Proper arrangements were made by our department to make the journey pleasant one. The visit was a one day visit; we reached Bokakhat at about 7.45 am. After being refreshed there, we resumed our journey and reached Kaziranga at about 9.30 am. First we visited Kaziranga Orchid Park situated in the Kohora range. The place is a huge site for different flora. From there we resumed our journey to our final destination, i.e., Kaziranga National Park. We reached there at about 11.40 am and after completing the official documentation, we went to have our lunch since the jeep safari time was from 1 pm. So after having our lunch we came back and divided into 6 groups. We took 7 jeep, each group consist of 6 members took each jeep. At about 1 pm, our visiting time started in the National Park. After completing the jeep safari we returned from the sanctuary at about 5 pm. The total safari time inside the park was almost two hours.

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1. INTRODUCTION

Kaziranga National Park, which hosts two-thirds of the World's great one horned rhinoceros, is a world heritage site. It is solitary among the foremost national parks in the earth and also famous as the pleasure of the North East India. Situated in the intense geographical place, the park presents a massive range of natural beauty. Kaziranga National Park is located fairly in the Golaghat and Nagaon regions of Assam in India. It is the oldest park in Assam covering an area of 430 sq kms along the river Brahmaputra on the North and the Karbi Anglong hills on the South. Edged by fertile tea bushes, Kaziranga National Park offers a splendid scenic sight. The park is also recognized as an Important Bird Area making it not only an ideal wildlife sighting destination in India but a birdwatcher's paradise as well.

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2.3 GEOGRAPHY & GEOLOGY

Located between the two districts of Assam – the Koliabar subdivision of Nagaon district and the Bokakhat subdivision of Golaghat district on the edge of the Eastern Himalaya biodiversity hotspots, Kaziranga National Park covers an area of about 378.22 sq. km in which 51.14 km² has been lost to erosion by the Brahmaputra.

Assam is in the easternmost projection of the Indian Plate according to the Plate Tectonics. It is believed that due to the force exerted by the north eastwardly movement of the Indian plate at the time of Himalayan origin, a huge fault was created between the Rajmahal hills and the Karbi Meghalaya plateau. Kaziranga National Park's landscape is the creation of natural forces of slit deposition and erosion that has been effected by the river Brahmaputra over hundreds of years.

2.4 CLIMATE

Due to its location in the middle of the Brahmaputra valley, Kaziranga gets around 250 cm of rain per year. It is often flooded by the river Brahmaputra to maintain the biological balance. 3 seasons are being experienced every year by the park – Summer, Monsoon and Winter. The summer is experienced approximately from February to May with temperature range from max. 37°C to min. 7°C. The hot and humid monsoon covers the sanctuary from June to September with rainfall of 2,220 mm. The winter extends from November to February with temperature range from max. 25°C to min. 5°C.

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3. MATERIALS AND METHODS

This field study report is prepared by using observation method. The primary data were collected during jeep safari in the Kaziranga National Park. Some secondary data were also collected as it is not possible to perform survey of the whole sanctuary in a day.

For field observation of different animals in their natural habitat, few monocular and binocular were used; digital camera and mobile camera were also employed to record different habitat types and other data in the field. Some guidebooks were also used for identification of the animals.

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4. OBSERVATION

4.1 VEGETATION PATTERN

The varied vegetation at the Kaziranga National Park creates the ideal habitat for a number of wild animals and birds and specially the one horned rhino.

Four types of vegetation are found in the sanctuary –

- Tropical wet evergreen forest
- Tropical deciduous forest
- Grasslands
- Swamp areas (beel)

The tropical deciduous forest vegetation are home to different animals of Kaziranga. The evergreen forest vegetation are home to a large variety of wildlife such as deer, wild boar and different species of water birds. The swampy areas inside the park, located near the River Brahmaputra are natural habitats for different species of reptiles and birds. The western area of the national park has grasslands. Tall grasses like sugarcane, elephant grass and spear grass are found in the western grassland zones.

4.2 FAUNAL DIVERSITY PATTERN

Being one of the famous world heritage sites, Kaziranga helps in protecting some of the globally threatened and near endangered species of animals and birds. Kaziranga, home to the world's largest remaining populations of Indian one horned Rhinos, Eastern Barasingha and wild water buffalo, Elephant and Tiger, also offers one of the most cosmopolitan outdoor activities called birding.

Following are the faunal diversity found in Kaziranga National Park—

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4.2.1 MAMMALS

The Kaziranga National Park supports more than 35 species of mammals of which 15 belong to Schedule I of Wildlife Act 1972. It harbours the world's largest population of Indian Rhinoceros and many more species. Here is the list of mammals found in the sanctuary –

ENGLISH NAME	SCIENTIFIC NAME
INDIAN RHINOCEROS	<i>Rhinoceros unicornis</i>
ASIATIC WILD BUFFALO	<i>Bubulas bubalis</i>
ROYAL BENGAL TIGER	<i>Panthera tigris</i>
CAPPED LANGUR	<i>Presbytis pileatus</i>
HOOLOCK GIBBON	<i>Hylobates hoolock</i>
LEOPARD	<i>Panthera pardus</i>
INDIAN ELEPHANT	<i>Elephus maximus</i>
SLOTH BEAR	<i>Melursus ursinus</i>
GANGETIC DOLPHIN	<i>Platanista gangetica</i>
OTTER	<i>Lutra lutra</i>
WILD BOAR	<i>Sus scrofa</i>
GAUR	<i>Bos gaurus</i>
SAMBAR	<i>Cervus unicolor</i>
SWAMP DEER	<i>Cervus duvauceli</i>
HOG DEER	<i>Axis porcinus</i>
COMMON LANGUR	<i>Presbytis entellus</i>
INDIAN PORCUPINE	<i>Hystrix indica</i>
LARGE INDIAN CIVET	<i>Viverra zibetha</i>
SMALL INDIAN CIVET	<i>Viverricula indica</i>
COMMON MONGOOSE	<i>Herpestes edwardsi</i>
JACKAL	<i>Canis aureus</i>

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4.2.2 BIRDS

Numerous water bodies constitute rich reservoir of food and thousands of migratory birds visit the park seasonally during winter from as far as Siberia. A total of 478 species has been recorded (M. Barua and P. Sharma, 1999) including 25 globally threatened species and 21 near threatened species. The bird species found in the park are listed as follows –

ENGLISH NAME	SCIENTIFIC NAME
Swamp Francolin	<i>Francolinus gularis</i>
Lesser White fronted Goose	<i>Anser erythropus</i>
Ferruginous Pochard	<i>Aythya nyroca</i>
Baer's Pochard	<i>A. baeri</i>
Blyth's Kingfisher	<i>Alcedo Hercules</i>
Pale capped Pigeon	<i>Columba punicea</i>
Bengal Florican	<i>Houbaropsis bengalensis</i>
Nordmann's Greenshank	<i>Tringa guttifer</i>
Greater spotted Eagle	<i>Aquila clanga</i>
Imperial Eagle	<i>A. heliaca</i>
Palla's Fish Eagle	<i>Haliaeetus leucoryphus</i>
Dalmatian Pelican	<i>P. crispus</i>
Spot billed Pelican	<i>Pelecanus philippensis</i>
Greater Adjutant	<i>Leptoptilos dubius</i>
Lesser Adjutant	<i>L. javanicus</i>
Rufous vented Prinia	<i>Prinia burnesii</i>
Bristled Grassbird	<i>Chaetornis striatus</i>
Mah Babbler	<i>Pellorneum palustre</i>
Jerdon's Babbler	<i>Chrysomma altirostre</i>
Black breasted Parrotbill	<i>Paradoxornis flavirostris</i>
White bellied Heron	<i>Ardea insignis</i>
Finn's Weaver	<i>Ploceus megarhynchus</i>
Black bellied Tern	<i>Sterna acuticauda</i>

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4.2.3 REPTILES

About 42 species of reptiles have been reported from the Kaziranga National Park. Two of the largest snakes in the world as well as the longest venomous snake in the world inhabit the park. Kaziranga is also home to the endangered gharial and about 15 species of turtles, including the endemic Assam roofed turtle and a regional lizard species too. Here is the list of reptiles found in the park –

ENGLISH NAME	SCIENTIFIC NAME
BLACK KRAIT	<i>Bungarus niger</i>
COMMON KRAIT	<i>Bungarus caeruleus</i>
BANDED KRAIT	<i>Bungarus fasciatus</i>
BENGAL COBRA	<i>Naja kaouthia</i>
KING COBRA	<i>Ophiophagus hannah</i>
INDIAN COBRA	<i>Naja naja</i>
ROCK PYTHON	<i>Python molurus</i>
RETICULATED PYTHON	<i>Python reticulatus</i>
RUSSEL'S VIPER	<i>Vipera russellii</i>
PIT VIPER	<i>Trimeresurus spp.</i>
RAT SNAKE	<i>Ptyas mucosus</i>
GHARIAL	<i>Gavialis gangeticus</i>
ASSAM ROOFED TURTLE	<i>Kachuga sylhetensis</i>
INDIAN ROOFED TURTLE	<i>Kachuga tecta</i>
INDIAN TENT TURTLE	<i>Kachuga tentoria</i>
INDIAN EYED TURTLE	<i>Morenia petersi</i>
GANGETIC SOFTSHELL TURTLE	<i>Aspideretes gangeticus</i>
INDIAN BLACK TURTLE	<i>Melanochelys trijuga</i>
BROWN ROOFED TURTLE	<i>Kachuga smithii</i>
BROWN HILL TORTOISE	<i>Manouria emys</i>
COMMON INDIAN SKINK	<i>Mabuya carinata</i>
TUCKTO GECKO	<i>Gecko gecko</i>

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Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Zoology [Page 13]


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TICTICKY HOUSE GECKO	<i>Hemidactylus frenatus</i>
COMMON BENGAL MONITOR	<i>Varanus bengalensis</i>
INDIAN WATER MONITOR	<i>Varanus salvator</i>
ASSAM GARDEN LIZARD	<i>Calotes maria</i>
DOTTED GARDEN SKINK	<i>Lygosoma punctata</i>

4.2.4 AMPHIBIA

The amphibians residing in the sanctuary are listed below –

ENGLISH NAME	SCIENTIFIC NAME
PYGMY TREE FROG	<i>Chiromantis simus</i>
POINTED NOSE FROG	<i>Clinotarsus alticola</i>
COMMON ASIAN TOAD	<i>Duttaphrynus melanostictus</i>
INDIAN SKIPPER FROG	<i>Euphlyctis cyanophlyctis</i>
INDIAN CRICKET FROG	<i>Fejervarya limnocharis</i>
PIERREI'S CRICKET FROG	<i>Zakerana pierrei</i>
JERDON'S BULL FROG	<i>Hoplobatrachus crassus</i>

4.2.5 FISH

The Kaziranga National Park is home to a wide variety of aquatic life including about 42 species of freshwater fish. Here is the list of the fishes found in the park –

ASSAMESE NAME	SCIENTIFIC NAME
BAHU	<i>Catla catla</i>
CHANDA	<i>Chanda nama</i>
CHENGA	<i>Channa amphibia</i>
CHENGELI	<i>Channa orientalis</i>
SAL	<i>Channa marulius</i>
KOKILA	<i>Xenentodon cancila</i>
GARUA	<i>Bagarius bagarius</i>

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ROHU	<i>Labeo rohita</i>
KUCHIA	<i>Amphipnous cuchia</i>
BANHHPUTHI	<i>Amblypharyngodon mola</i>
GROI	<i>Channa punctata</i>
GONGATUP	<i>Tetraodon cutcutia</i>

4.2.6 INVERTEBRATE FAUNA

Kaziranga National Park is also home to a large number of invertebrate animal diversity which includes butterflies (*Papilio paris*, *Papilio castor*, *Parides aidoneus* etc.), many spiders, ants, various molluscans (*Pila globosa* etc.), Indian earthworm, locust, mosquitoes, various worms (like silkworm, tongue worm etc.), millipedes, dragon fly, beetles etc.

4.3 FLORAL DIVERSITY

The floristic composition of the Kaziranga National Park comprises of following forest types and biomes –

- Eastern Wet alluvial grasslands
- Assam Alluvial plains Semi-evergreen forests
- Tropical moist mixed deciduous forests
- Eastern Dillenia Swamp forests
- Wetlands
- Sandy “chars”

The percent coverage by vegetation is – Moist mixed deciduous forest 29.13%, Grass land 51.91%, Water logged/Beels 6.62%, Swampy/Marshy area 5.21% and Sand 7.12%.

Some of the common species of flora found in the park are elephant grass, sugarcane, spear grass, common reed, kumbhi, Indian gooseberry, *Talauma hodgsonii*, *Duabanga grandiflora*, *Aphania rubra* and *Leea indica*. There are also many different aquatic flora in the lakes and ponds, and along the river shores.

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Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Zoology [Page 15]


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5. DISCUSSION

5.1 FAUNA

The Kaziranga National Park is very rich in faunal diversity. Varieties of common as well as unique animals are found here. The diverse habitat type such as dense forest, fragmented vegetation, lowland grassland, aquatic bodies support different animals for their food and shelter. The altitudinal slope, pleasant climate, enough rainfall maintain the rich fauna.

5.2 FLORA

The park is quite rich in floral diversity too. The geology and soil parameters of the Himalayan foothill region are favourable for the growth and development of many evergreen, deciduous and epiphytic plants. Heavy rainfall during the monsoon and the Brahmaputra River maintain a good content of humidity in the soil and air of the national park.

5.3 ECOTOURISM

Kaziranga National Park is a tourist destination and conservation area particularly notable as a refuge for the endangered Indian one-horned rhinoceros, hosting the largest population of wild one horned rhinoceros in the world. Central govt. has included Kaziranga in eco-tourism circuit of the integrated Development Tourism Circuit Scheme. The park contains significant stock of other large and small animals too. It also has the highest density of tiger in the world. It is also recognised as an important bird area for conservation of avifaunal species.

The means of travel inside the park is on the back of trained elephants with mahout guides or in jeep or 4WD vehicles. The park has three tourist routes under three ranges – Kohora, Bagori and Agaratoli. These roads are open for tourists from November to mid May and remains closed during monsoon. For spotting wildlife with better view, some observation towers are also situated at Sohola,

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Mihimukh, Kathpara, Foliamari and Harmoti. Wildlife watching, including birding is the main activity inside the park.

Tourist can make entry to the Central, Eastern and Western zone of the park after paying a requisite entry fee to the park authority. Private sector investment in this tourist spot helps in changing the state tourism scenario. There are so many hotels and restaurant near Kohora and Bagori range of Kaziranga National Park, where tourist able to find best places to stay.

5.4 THREATS

At present Kaziranga National Park is facing so many problems. Some of these are discussed below.

FLOOD: Kaziranga National Park is situated in the bank of mighty Brahmaputra. The entire area is has been formed by silt deposition carried by different river systems flowing through it. Each year with increase in the water level of Brahmaputra River, the water level in the various water bodies and stream also raise .As the southern boundary of the national highway is at a height, animals often move to take shelter there during floods. This also invites poachers.

POACHING: The Park has continuously in the headlines in past few years, especially with poaching accounting for the loss of 27 rhinos in 2013.

POLLUTION: The petroleum refinery (Numaligarh Refinery Limited) is situated closely to the eastern range of the park. Water pollution due to run from NRL pose a hazard to the ecology of the region .The use of insecticides by the tea garden always get leached to the rivers and pollute the park lands and wetlands.

HABITAT LOSS: Brahmaputra River erodes large area along the northern boundary of Kaziranga, which reduces the total

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6. CONCLUSION

Kaziranga for the last few years has been a successful wildlife conservation site for the world's famous Indian one horned rhinoceros and many more rare and threatened faunal diversity. Being one of the famous World Heritage Site, the sanctuary hosts two thirds of the world's great one horned rhinoceros. Providing home to many wildlife including the fascinating migratory birds from as far as Siberia, the National Park has been the theme of several books, songs and documentaries too. Thus, visiting this National Park is indeed a great experience.

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Report of Field-Based Study Submitted by Advanced Learner(s) from Dept of Zoology [Page 18]


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Lesser Adjutant



Ruddy Shelduck



Bar Headed Goose



Goose



Ibis



Cinnamon Teal

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Tortoise



Rhinoceros with baby



Jeep Safari



Water body



Eagle



Red Wattled Lapwing

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Indian Roller



Asian Openbill Stork



Group visiting the National Park

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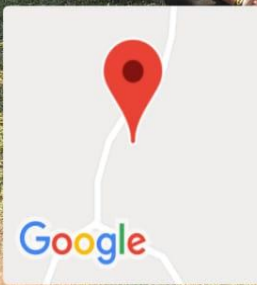



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Field-Based Study Conducted by Students from Dept of Political Science [Page 1]


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Field-Based Study Conducted by Students from Dept of Political Science [Page 2]


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Birding trip to Jhanjimukh - Kokilamukh IBA site. Jan, 2020

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At Hoolongapar Gibbon Wildlife Sanctuary, Jorhat. Feb, 2019

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Students visiting Hoolongapar Gibbon Wildlife Sanctuary, Jorhat. 2018

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B.Sc. Students during a Bird Census Project, Sarala Wetland, Nimati Ghat, Jorhat

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B.Sc. 6th Semester students and Teachers during a trip to Central Muga Eri Research and Training Institute, Gol, Lahdoigarh Jorhat Feb. 2019.

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At Central Muga Eri Research and Training Institute , Lahdoigarh,
Under Central Silk Board, Gol

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**A FIELD REPORT ON THE
EDUCATIONAL TOUR TO TEZPUR UNIVERSITY**

**SUBMITTED BY
STUDENTS OF B.SC 6TH SEMESTER
BAHONA COLLEGE
YEAR 2017**

Report of Visit to Tezpur University by students of Dept of Chemistry [Page 1]


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ACKNOWLEDGMENT

We take immense pleasure in thanking our honorable principal DR. P.K. DUTTA for having permitted to carry out of this tour. We want to express our deep sense of gratitude to all the teachers of CHEMISTRY DEPARTMENT for guidance and valuable advice. We the students of CHEMISTRY DEPARTMENT of BAHONA COLLEGE along with our teachers went to TEZPUR UNIVERSITY as an Educational Tour as well as for a picnic on 24/01/2017. Here is a descriptive report on our tour to TEZPUR UNIVERSITY

Report of Visit to Tezpur University by students of Dept of Chemistry [Page 2]


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HISTORY OF TEZPUR UNIVERSITY

The establishment of Tezpur University is considered to be one of the outcomes of the Assam Accord along with the of Assam University and Indian Institute of Technology Guwahati.

Tezpur University was established, by an Act of Parliament, in 1994. Then the prime minister of India, P. V. Narasimha Rao, chaired the opening of the university.

Initially, the university operated from the premises of the Darrang College, in Tezpur. For a while it also operated from the Tezpur Law College premises. Land was acquired at Napaam, a suburb of Tezpur, about 15 kilometers east, of 242 acres (0.98 square kilometers), and the premises shifted.

Kalaguru Bishnuprasad Rava (Rabha) donated an ancestral estate of 2500 bigha of land received from the British government in favour of the peasants. The present-day Tezpur University stands on the land donated by him. Recently the university acquired an additional plot of land.

DETAILS ON TEZPUR UNIVERSITY

Campus

The university campus is at Napaam about 15 km east of Tezpur, the headquarters of the Sonitpur district of Assam. Napaam is a rural area surrounded by peoples of diverse caste, religion and language. The Napaam campus is in a plot of an area of 262 acres (1.06 km²) of land. The campus is bounded by pucca walls. Napaam is linked by a PWD road from the National Highway No. 37A at almost the midpoint between Kalia-Bhomora bridge and Misson Chariall. Tezpur is linked by road and rail with the rest of the state and the country. There is a tri-weekly flight between Kolkata and Tezpur.

Report of Visit to Tezpur University by students of Dept of Chemistry [Page 3]


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There are provisions for visitors to stay in the university guest house. Students may choose to stay in any of the men's or women's hostels. The university is primarily a residential university.^[6] The university has five men's hostels (listed in order of construction):

- **Charaideo Men's Hostel: Named after the burial land of Ahom kings in Sivasagar, Assam.**
- **Nilachal Men's Hostel: Named after the Nilachal Hill in Guwahati**
- **Kanchenjunga Men's Hostel: Named after Kangchenjunga, the third highest mountain in the world (after Mount Everest and K2).**
- **Patkai Men's Hostel: Named after the Patkai-Bum, the Khasi-Jaintia-Garo and the Lushai hills mountain range in the eastern Himalayas.**
- **Saraighat C. V. Raman Men's Hostel: Named after the Saraighat Bridge at Guwahati and the famous Indian physicist and Nobel laureate Sir C. V. Raman.**

There are seven women's hostels:

- **Bordoichilla Women's hostel: Named after the seasonal storm that occurs in Assam every spring, before and after the festival of Bihu.**
- **Dhansiri Women's hostel**
- **Pragjyotika Women's Hostel**
- **Suwansiri Women's hostel**
- **Kopili Women's Hostel**
- **New Women's Hostel**
- **Pobitara Madam Curie Women's Hostel: Named after the Pobitara Wildlife Sanctuary and the physicist Marie Curie.**

Report of Visit to Tezpur University by students of Dept of Chemistry [Page 4]


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There is also a married-scholars hostel, which is at present serving as a makeshift accommodation for newly recruited faculty of the university.

Communications

Auto Rickshaws, the chief mode of public transport in and around Tezpur, run between Tezpur University and Tezpur city. There is an ASTC bus utility between the university and the ASTC bus stand located at the heart of Tezpur city. ASTC and private buses run daily between Tezpur and some other major places like Guwahati (ISBT, Lokhra), North Lakhimpur, Dibrugarh, Tinsukia etc. 20-seater cabs ply between Tezpur and Paltan Bazaar, Guwahati. The nearest railway station is Dekargaon Railway Station which offers a link between Tezpur and the other parts of Assam. Travellers can also opt for flying to and from Tezpur where the nearest airport - Tezpur Airport provides air link with Kolkata and Silchar.^[7] For other destinations, the nearest airport is the Lokapriya Gopinath Bordoloi International Airport at Guwahati.

Education

The university has four schools of studies which is divided into 21 departments and additional centers and cells.

- *School of Sciences*
- *School of Humanities & Social Sciences*
- *School of Management Sciences*
- *School of Engineering*

Schools and departments

The School of Science is divided into five departments, which provides postgraduate degrees in Science and carry on research in science and mathematics.

- *Department of Chemical Sciences*

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- **Department of Mathematical Sciences**
- **Department of Molecular Biology and Biotechnology**
- **Department of Physics**
- **Department of Environmental Science**

This School of Humanities & Social Sciences provides education as well as diploma, undergraduate, postgraduate, and research programmes related to arts and social sciences in following departments:

- **Department of English and Foreign Languages**
- **Department of Cultural Studies**
- **Department of Mass Communication and Journalism**
- **Department of Sociology**
- **Department of Hindi**
- **Department of Education**
- **Department of Social Work**



Department of Business Administration, Tezpur University

The School of Management Sciences provides education as well as diploma, undergraduate, postgraduate, and research programs related to business management in the following departments:

- **Department of Business Administration**
- **Department of Commerce**
- **Centre for Disaster Management**
-



Department of Computer Science and Engineering

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The School of Engineering offers courses in engineering and technology. The offering masters and B.Tech programmes in the various disciplines. Admission to the B.Tech programs is on the basis of JEE (Main). Besides B.Tech and M.Tech programs, School of Engineering, the university provides Ph.D programs in specialized fields.

- Department of Computer Science & Engineering
- Department of Electronics and Communication Engineering
- Department of Mechanical Engineering
- Department of Food Engineering and Technology
- Department of Civil Engineering
- Department of Energy

Special centres and cells

- Centre for Assamese Studies (CAS)
- Centre for Endangered Languages (CFEL)
- Centre for Inclusive Development (CID)
- Centre for Innovation Incubation and Entrepreneurship(CIIE)
- Teaching and Learning Centre (TLC)
- Centre for Women Studies (CWS)

Cells

- Research & Development (R & D) Cell
- Intellectual Property Rights (IPR) Cell
- DBT Nodal Centre
- ONGC Centre for Petroleum Biotechnology (CPBT)
- Bioinformatics Infrastructure Facility (BIF)
- Institutional Biotech Hub
- Internal Quality Assurance Cell (IQAC)

Rankings

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University rankings	
General – International	
QS (Asia) (2018) ^[9]	247
Times (World) (2018) ^[10]	601-80
General – India	
NIRF (Overall) (2017) ^[11]	48
NIRF (Universities) (2017) ^[12]	30

Tezpur University was ranked 601-800 in the world by the Times Higher Education World University Rankings of 2018. The QS World University Rankings ranked it 247 in Asia in 2018. In India it was ranked 48 overall by the National Institutional Ranking Framework of 2017 and 30 among universities.

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DEPARTMENT OF CHEMICAL SCIENCE



Department of Chemical Sciences is one of the most active department of prestigious Best Visitor's Award winning educational institute, Tezpur University. Decorated by well-trained and extremely motivated faculty as well as bright students, the department constantly strives to maintain a culture of excellence in research and uphold the highest standards in chemical education. The Department of Chemical Sciences was started in the year 1997, when it offered M. Sc. course in Polymer Science. From July 2006 the Department has been offering M. Sc. program in Applied Chemistry with specialization in Catalysis, Medicinal Chemistry and Polymer Chemistry. The Department consists of 15 research laboratories, 3 M. Tech. laboratories and 5 M.Sc. laboratories. This Department is supported by DST-FIST and UGC-SAP (DRS-II) level.

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Faculty members are actively engaged in high quality research in chemical sciences as well as interdisciplinary topics. There are several international collaborative projects are going on apart from many national collaborative projects. There are running consultancy projects. Few faculty members are also UGC, CSIR, DBT, DAE, AICTE etc.

They are well placed across the globe and have contributed significantly in their respective domain.

Central Library



Central Library is the focal point of all user community of Tezpur University. The Library caters to the educational and research needs of the academic community and its resources are consulted by scholars from all over the country. Central Library has been started functioning since 1994. At present, the library holds about 78,318+ books, 10000+ e-journals and 8380 back volumes of journals (as on 15 February 2018). Apart from the online journals and database provided by e-ShodhSindhu consortium and DeLCON consortium, the library

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also holds more than 2550 CDs scattering to different thought contents. Library users can access book database, theses database, journal database, e-journals and other e-resources from any terminal within the University campus. Central Library remains open throughout the year

OUR JOURNEY

The day after, it was waiting for. Planning for week long was going to turn into execution. A group of our so called "senior most students" of our department were the organizers of the picnic cum educational tour to TEZPUR UNIVERSITY. We had so many duties that had to be done for our tour, Managing the tour bus, shopping the food items, the utensils, and so on.

All the preparations were done. The bus was house packed with all the students of our department. At last bus stopped on the GANESH GHAT, our teachers asked us to visit AGNIGAR which is near to the GANESH GHAT . After taking our meal we went to the destinations i.e., the TEZPUR UNIVERSITY which is the most important part of the tour . The senior staffs in the job shown us the CHEMICAL SCIENCE DEPT along with the apparatus they use and explained to us the various mechanisms which is related to the apparatus .Then we visit the central library of the university. We were much lucky to get such a good opportunity to get that valuable knowledge from the senior people.

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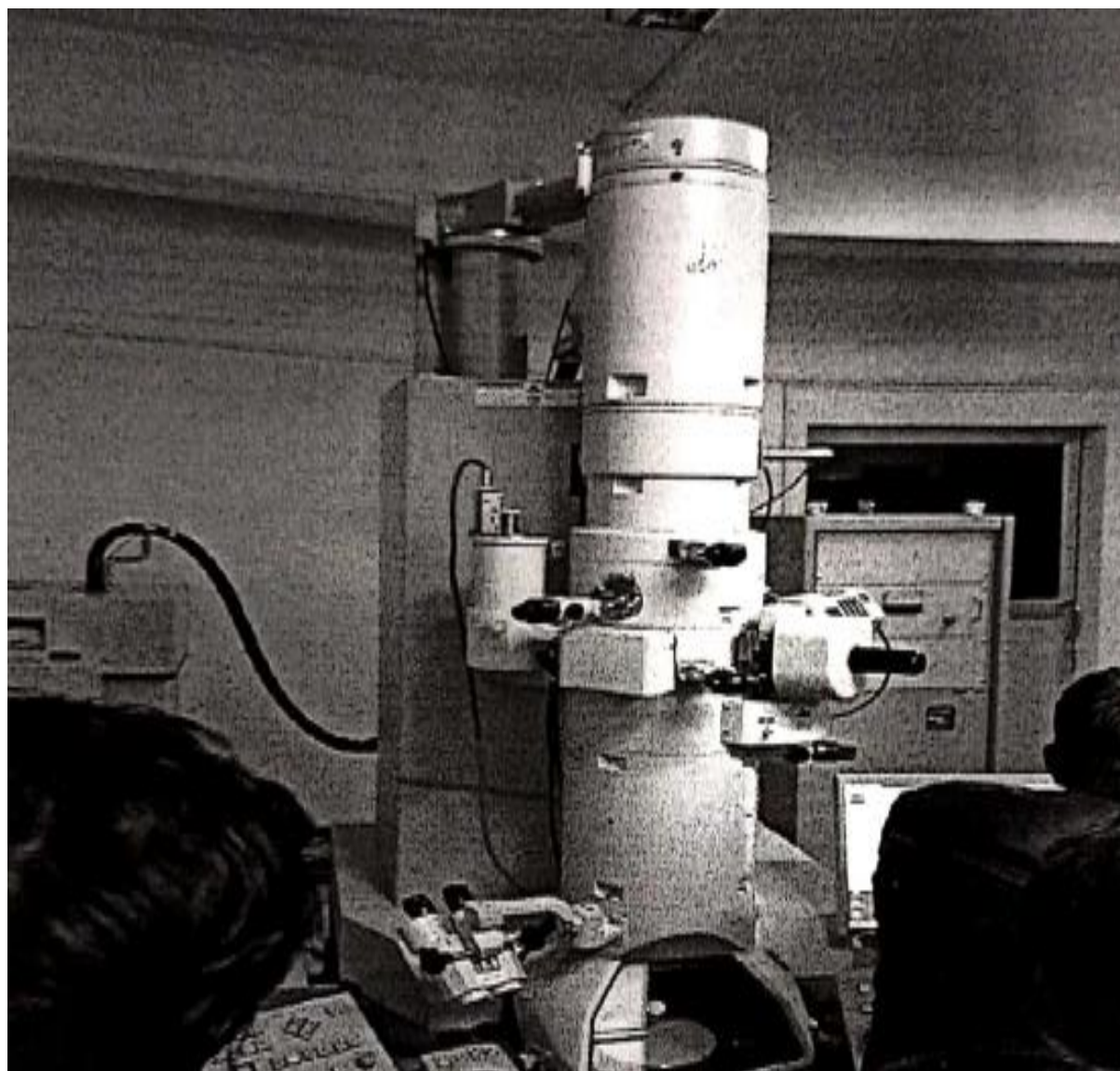


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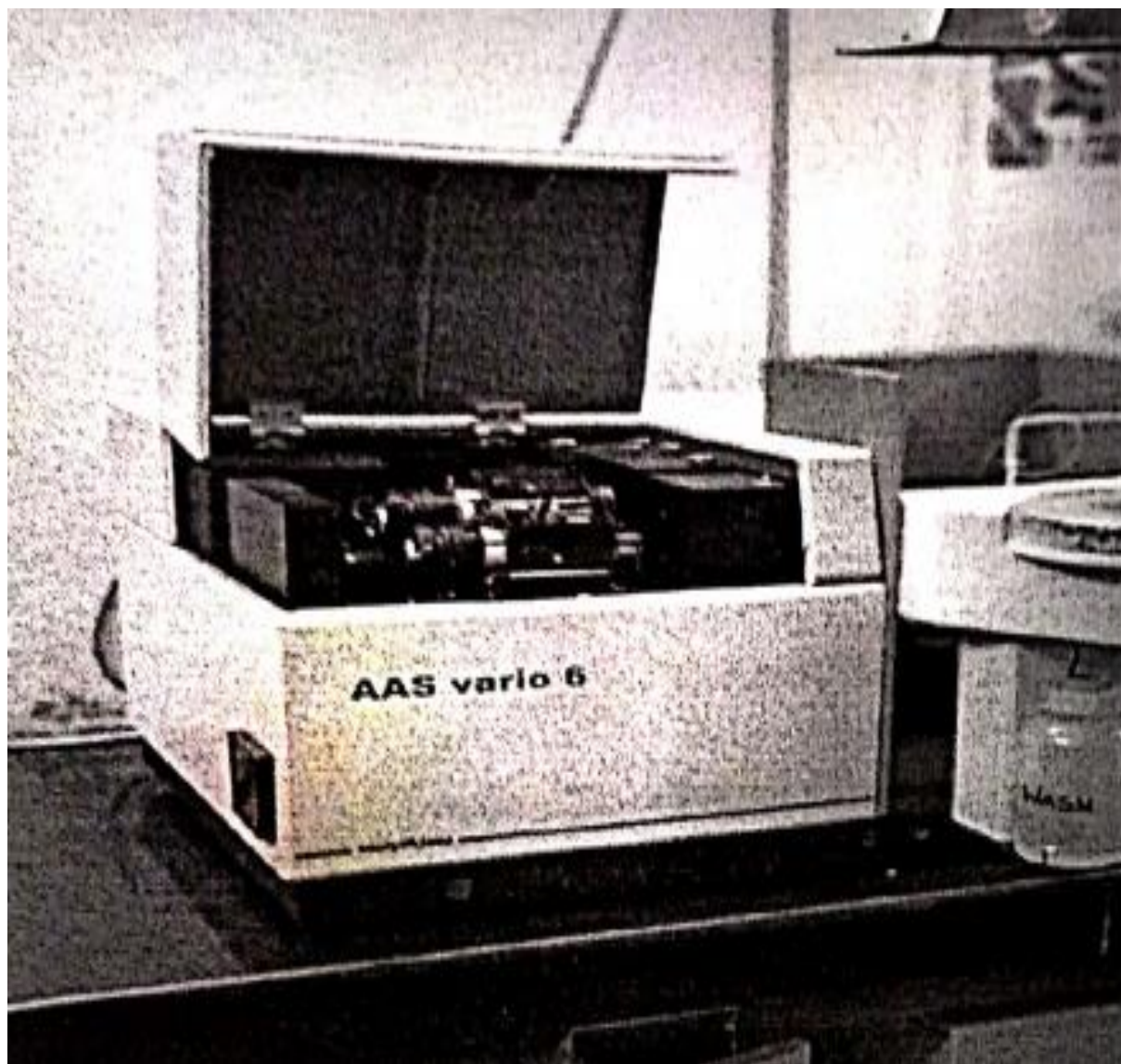


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**A FIELD REPORT ON THE
EDUCATIONAL TO GELEKI OIL FIELD,
SIVASAGAR**

Submitted by

Students of

BSc. 6th semester

BAHONA COLLEGE, JORHAT

Year 2016

[Signature]
Head
Department of Chemistry
Bahona College, Bahona

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ACKNOWLEDGMENT

We take immense pleasure in thanking our honourable principal **DR. P.K. DUTTA** for having permitted to carry out of this field work.

We want express our deep sense of gratitude to all the teachers of **CHEMISTRY DEPARTMENT** for guidance and valuable advice.

We the students of **CHEMISTRY DEPARTMENT** of **BAHONA COLLEGE** along with our teachers went to **GELEKI OIL FIELD** as an Educational Tour as well as for a picnic on 28/01/2016 .Here is a descriptive report on **GELEKI OIL FIELD** .

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HISTORY OF THE OIL INDUSTRY:

The discovery of petroleum in British North East India (NE) began with the onset of amateur geological exploration of the region since the 1820s. Like tea plantations, exploration of petroleum also attracted international capital. Since the last quarter of the 19th century, with the arrival of global technology, the region's petroleum fields became part of a larger global petroleum economy, and, gradually, commercial exploration of petroleum became a reality. It was a time when geologists had not yet succeeded in shaping an understanding of the science of oil and its commercial possibilities. Over the next century, the Assam oilfields played a key role in the British imperial economy. After decolonisation, these oilfields not only turned out to be the subject of intense competition in the regional economy, but also became centrally identified with questions of community rights. Immediately after independence, the Indian state encountered political opposition to its stake on oil from Assam. This happened at a time when the share of natural resources between the province and centre was still not well-defined. Such opposition continued until a later period, when an economic blockade, with the aim of restricting oil flows outwards from Assam, was successfully imposed as part of the assertion of regional politics. This also became a counter in the political negotiations between the Indian state and its federal province. As in the US, China and Iran, oil seeped out of the soil in India as well; British travelers in Assam reported such pools from 1825 onwards. Once fractionation technology was proved in the US, industrial refining of oil became feasible. Assam Railways & Trading Company Limited was registered in London in 1881 to exploit Assam's natural resources. It struck oil in exploitable volume near Digboi in 1889; at that point it transferred its oil interests to a separate company Assam Oil Company. AOC built a refinery in Digboi in 1901. AOC was taken over in 1917 by Burmah Oil Company, which later became Burmah Shell and then Shell. Expanded and modernized a number of times, the Digboi refinery continues to function till today. Today, Digboi boasts two energy wonders of the world—a hundred-year-old oil field that is still operational and the world's oldest operating oil refinery, which produces in excess of its capacity. Digboi Well No. 1 is preserved as a monument to the oil pioneers and their endeavours. Some important year and events in Assam related to oil industry are mentioned below:

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1866: Hydrocarbon exploration began in India when Mr. Goodenough of the Calcutta-based McKillop Stewart Co. drilled a well near Jaypore in Upper Assam and struck oil. He, however, failed to establish satisfactory production.

1867: H. B. Medicott of the Geological Survey of India (GSI) first started oil exploration in India in the Makum area of Assam. The most astounding Indian oil history was made on 26 March by Mr. Goodenough when he struck oil at 35.97 metres at Makum (with a total production of 1135.62 litres). It was Asia's first mechanically drilled well. Before this discovery, three wells had been drilled in Jaypore which encountered some gas but little oil.

1889-1893: The first taste of commercial success came when a well was struck at Digboi in 1889 by the Assam Railways & Trading Company (AR&T). AR&T subsequently acquired a 77.7 square kilometre petroleum-rights concession in the Makum area of Assam, and by 1893 had drilled 10 wells at Digboi producing 757.08 litres/day.

1917: The oil production in Assam, mainly from Digboi, at 43 bopd in 1901, trebled to 120 bopd in 1902. It further increased to 247 bopd in 1911, 435 bopd in 1917 and 5,500 to 7,000 bopd during the war years (i.e. the first half of the 1940s).

1953: Attock Oil Company AOC discovered oil in Nahorkatiya (Upper Assam) in 1953, the first oil discovery after independence.

1956: AOC discovered the Moran oil field (Southwest of Nahorkatiya, Upper Assam), the first deepest drilled well in Asia. The Oil and Natural Gas Division (within the Geological Survey of India) became the Oil and Natural Gas Commission (ONGC).

1964: ONGC discovered oil in Lakwa (Southwest of Moran, Upper Assam).

1968: ONGC discovered an oil field in Geleki in Assam.

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GELEKI OIL FIELD:

Sivasagar District of Assam houses several Mining Lease (ML) areas for oil and gas exploration. The present request for Environmental Clearance pertains to drilling of eight (8) exploratory wells falling in 5 ML areas viz. Charali ML, Geleki ML, SE Geleki ML, Mekeypore-Santak-Nazira ML and Lakwa ML areas.

Charali Mining Lease (ML) is one of the important oil producing fields of ONGC situated in Sivasagar District of Assam. The area of this lease is 51.63 square kilometers. This ML area forms the part of North Assam shelf. A 20 years ML was obtained with effect from 20.03.1999 (Ref: MOPNG, Govt. of India, Letter No. O-12012/94/2002-ONG/D-IV, dated 29 th April-2002) and is valid upto 19.03.2019. Charali ML is highly prospective where oil and gas have been discovered and produced from a large stratigraphic column ranging from Barail Group to Girujan Formation. However there are areas within the ML which still have untapped hydrocarbons. These locations are proposed for exploiting these pools. In view of the above it is proposed to grant the environmental clearance at the earliest so that the drilling commitments as well post drilling evaluations could be carried out.



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Fig: Location of Geleki Oil Field with other identified prospects in Assam Geological Province.

Geleki and its satellite fields Mekeypore, Santak & Nazira are some of the important oil producing fields of ONGC situated in Sivasagar District of Assam. These areas form the part of North Assam shelf and had been producing hydrocarbons for more than three decades from Barails and Tipams. ONGC has received Mining Lease of these areas from MOPNG, Govt of India for exploring and producing hydrocarbons. The Mining Lease (ML) areas with their respective validity are - 1. Geleki ML (Area: 27.94 sq km, with effect from 16.08.1990 to 15.08.2030), 2. SE Geleki ML (Area: 20.5 sq.km, with effect from 30.01.2006 to 29.01.2026) and 3. Mekeypore-Santak-Nazira ML (Area: 77.0 sq km, with effect from 30.01.2006 to 29.01.2026). Reservoirs in different stratigraphic levels starting from various sand units of Barail Group (BMS, BCS sands) to sands within Tipam Group (TS-6, TS-5, TS-4, TS-3, TS-2 & TS-1) have been charged in different part of the MLs depending on favorable entrapment conditions. Shales/Claystones of within these formations and clays in Girujan & Namsang have acted as cap rock facies. Geleki ML is highly prospective where oil and gas have been discovered and produced from a large stratigraphic column ranging from Pre- Barails to Girujan Formation. However, there are areas within the ML which still have untapped hydrocarbons. These locations are proposed for these exploiting these pools.

Lakwa Mining Lease (ML) contains important oil producing fields of ONGC situated in Sivasagar District of Assam. The area of this lease is 172.49 square kilometers. This ML area forms the part of North Assam shelf and has been producing hydrocarbons for more than three decades from Barails and Tipams. A 20 years ML has been obtained with effect from 29.09.2008 and is valid upto 28.09.2028. So far, 681 numbers of wells (including exploratory and development wells) have been drilled in this mining lease with depths ranging from 2259m to as deep as 5113m. Lakwa Mining Lease is highly prospective where oil and gas have been discovered and produced from a large stratigraphic column ranging from Tura to Girujan Formation. However there are areas within the ML which still have untapped hydrocarbons. These locations are proposed for these exploiting these pools.

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DRILING FLUID:

Drilling fluid - mud - is usually a mixture of water, clay, weighing material and a few chemicals. Sometimes oil may be used instead of water, or oil added to the water to give the mud certain desirable properties. Drilling fluid is used to raise the cuttings made by the bit and lift them to the surface for disposal. But equally important, it also provides a means of keeping underground pressures in check. The heavier or denser the mud, is the more pressure it exerts. So weighing materials - barite - are added to the mud to make it exert as much pressure as needed to contain formation pressures. The equipment in the circulating system consists of a large number of items. The mud pump takes in mud from the mud pits and sends it out a discharge line to a standpipe. The standpipe is a steel pipe mounted vertically on one leg of the mast or derrick. The mud is pumped up the standpipe and into a flexible, very strong, reinforced rubber hose called the rotary hose or kelly hose. The rotary hose is connected to the swivel. The mud enters the swivel the swivel goes down the kelly, drill pipe and drill collars and exist at the bit. It then does a sharp U-turn and heads back up the hole in the annulus. The annulus is the space between the outside of the drill string and wall of the hole. Finally the mud leaves the hole through a steel pipe called the mud return line and falls over a vibrating, screen like device called the shale shaker. Agitators installed on the mud pits help maintain a uniform mixture of liquids and solids in the mud. If any fine silt or sand is being drilled, then devices called desilters or desanders may be added. Another auxiliary in the mud system is a device called degasser.

Functions of Drilling Fluids

In the early days of rotary drilling, the primary function of drilling fluids was to bring the cuttings from the bottom of the hole to the surface. Today it is recognized the drilling fluid has at least ten important functions:

A- Assists in making hole by:

1. Removal of cuttings
2. Cooling and lubrication of bit and drill string
3. Power transmission to bit nozzles or turbines

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B- Assists in hole preservation by:

4. Support of bore hole wall
5. Containment of formation fluids

C-It also:

6. Supports the weight of pipe and casing
7. Serves as a medium for formation logging

D-It must not:

8. Corrode bit, drill string and casing and surface facilities
9. Impair productivity of producing horizon
10. Pollute the environment.

Types of Drilling Fluids:

Many types of drilling fluids are used in industry. Major categories include air, water- and oil base fluids. Each has many subcategories based on purpose, additives, or clay states.

Water Based Muds:

Water based mud's consist of four basic phases;

- Water
- Active colloidal solids
- Inert solids
- Chemicals

Water is the continuous phase of any water-based mud. Primary function of the continuous phase is to provide the initial viscosity which can be modified to obtain any desirable rheological properties. The second function of the continuous phase is to suspend the reactive colloidal solids, such as bentonite, inert solids, such as barite. Water also acts as a medium for transferring the surface available hydraulic horsepower to the bit on the bottom of the hole. Water is also a solution medium for all conditioning chemicals which are added to the drilling fluid. In water

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based mud's, clay is added to increase density, viscosity, gel strength and yield point, and to decrease fluid loss. Clays used in water based drilling fluids are mainly in three groups:

- Montmorillonites (bentonite)
- Kaolinites
- Illites

Chemicals used in water based mud's can be grouped according to their functions as:

- Thinners
- Dispersants
- Deflocculants

Oil Based Muds

Oil based mud's has been defined as a system the continuous or external phase of which is any suitable oil. At the present time, there are two mud systems the external phase of which is oil, i.e., true oil mud's and invert emulsion mud's. True oil mud systems consist of the following components:

- Suitable oil
- Asphalt
- Water
- Emulsifiers
- Surfactants
- Calcium hydroxide
- Weighting materials
- Other chemical additives

Among all of these, only oil and asphalt are necessary for the proper functioning of oil mud's. The others are only used for the purpose of enhancing and stabilizing rheological properties and plastering characteristics.

Different types of oils have been used as the continuous phase in oil mud's. The following commonly available oils have gained widespread acceptance:

- Lease crude oil
- Refined oils

Report of Visit to Geleki Oil Fields by students of Dept of Chemistry [Page 9]


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Our journey:

The day after, it was waiting for. Planning for week long was going to turn into execution. A group of our so called "senior most students" of our department were the organizers of the picnic cum educational tour to Geleki. We had so many duties that had to be done for our tour. Managing the tour bus, shopping the food items, the utensils, and so on.

All the preparations were done. The bus was house packed with all the students of our department.

At last bus stopped at the destination. Our teachers asked us to visit oil fields which were much important in the tour. As we travelled down the road, we saw various spots where fumes were glowing like the superior sun. Those were oil fields. We went to the destinations and the senior staffs in the job explained to us the various mechanisms going on in the huge mechanisms in the field. We were much lucky to get such a good opportunity to get that valuable knowledge from the seniorpeople.



Report of Visit to Geleki Oil Fields by students of Dept of Chemistry [Page 10]


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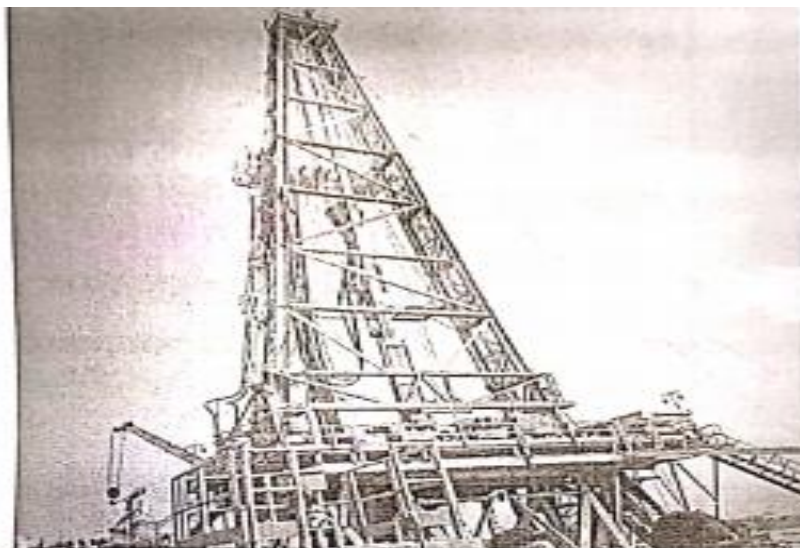


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Report of Visit to Geleki Oil Fields by students of Dept of Chemistry [Page 11]


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REPORT ON THE BAHONA COLLEGE EXCURSION TO DELHI, AGRA, JAIPUR UNDERTAKEN FROM 13.12.2017 TO 21.12.2017

**SUBMITTED BY:
SHANTANA SAIKIA
TEACHER-IN-CHARGE
DEPARTMENT OF ENGLISH
BAHONA COLLEGE**

Altogether 42 members, including the teacher in charge and a junior teacher, Ms Shrutidhara Saikia of the Department of English, went on this educational tour to the national capital city of Delhi, Agra and Jaipur.

The students consisted of a good mix from both the Arts and the Science stream from the Degree classes. (List enclosed)

The idea behind this excursion was to acquaint the students with the historical, social and cultural milieu and diversity of the country. Further, as the students were basically from rural pockets of the small city of Jorhat in Assam and also majority being from economically straitened backgrounds, the excursion was undertaken with the intention of exposing them to the mainstream and acquainting them with opportunities that they might further explore. Therefore, visits to the IIT, JNU and Delhi University were kept on the agenda.

The excursion began with an overnight journey by train from Jorhat to Guwahati on 13.12.2018 where the group was to board the North East Express early next morning. However, a twelve hour delay in the train schedule upset the itinerary and the plan to visit the universities had to be dropped.

Delhi: 16.12.2018. Having arrived late, the students were given a tour of Connaught place and given a ride in the metro on the first day. The highlight being the students being made to get their tickets themselves and ask for general directions with a view to improve their communication skills both in Hindi and English. While the accompanying teachers kept a general eye on the group, the students were encouraged to take their own and their group's responsibilities. Small groups with group leaders were formed and time and place set for them to meet. Post dinner, it was made mandatory for the groups to share their experiences.

17.12.2017: It was agreed with the tour operator that a bus would be kept in the service of the group on all days, there being no male teacher with the group. Accordingly, the group went to Agra on the morning of 17.12.2017 by a Volvo accompanied also by the tour operator and his assistant, two very responsible and energetic young men. The drive through the expressway was an excitement in itself for the students as was the Breakfast at a dhaba set in a lush yellow-green field.

The visit to Agra began with a tour of the Agra Fort. A tourist guide was engaged who told the students of the chequered history of the Mughals. The view from the window to Tajmahal and the tale of Emperor Shah Jahan's arraignment silenced the chirpy youngsters.

The much anticipated visit to the Tajmahal became trying as the group had to wait in the queue for nearly three hours to get inside. However, once inside, everybody was transported to another world. There was much photo clicking and everybody had to be literally dragged out! And the road journey to Jaipur commenced.

Report of Excursion Conducted in 2017 [Page 1]


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The arrival at Jaipur was late and post dinner everybody retired for the night. CW

18.12.2017

The next leg began with a tour of the Amber Fort where a guide was engaged to explain the Rajput history to the students. The students were enraptured by the recounted valour of the Rajput history and the magnificence of the fort. Much more than the stipulated time was spent at the fort and the students were taken to see the Jalmahal after that. Camel rides, shopping for baubles and posing in traditional clothes kept the students happy and they were allowed to indulge in these activities and communicate with the local people. Post lunch, a general tour of the pink city was given by bus. More sight-seeing had to be cancelled as winter nights were foggy and the group had to return to Delhi. Arrival in Delhi was late, post-midnight and the next morning the students were allowed to rest till late.

19.12.2018-20.12.2018

Local tour of Delhi began with visiting the Qutub Minar, India Gate, Rajghat, Rashtrapati Bhavan and the Lotus Temple. As some of the students were showing signs of fatigue, the pace was slowed and more rest was given. The 20th was kept for shopping at collective request and the students with their group leaders and teachers went to the Sarojini Nagar Market to shop for friends and family.

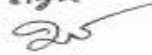
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The group had an early train to catch to Guwahati and had to leave the hotel at 2AM on the morning of the 21st only to be informed of a 17hour delay. Finally, after a delay of 27 hours an exhausted group reached Guwahati on the 23rd and left for Jorhat the same night.


SUMMING UP:

The students showed exemplary resilience, good conduct, responsibility and smartness. There was no untoward incident and they bore with the discomforts and the unfamiliar-to-their-palate food with equanimity. They took each other's responsibility and on the tiring journey back on a very slow and dirty train, were solicitous of the accompanying teachers' comfort. It is also worth mentioning that on the way back from Jaipur to Delhi the boys took turns to sit near the bus driver on the floor to keep him company and awake! We have been informed that some of them have maintained contact still with the driver, the hotel staff and the tour operators extending them invitations to visit which is a natural part of the Assamese culture. The same spirit was noticed on the train as they took up lower berths on the sides putting the girls in the middle.

A spirit of bonhomie developed among all the students across streams and semesters as they sang and danced together to the accompaniment of the karaoke that they had carried with them. Many students in their reports have expressed their resolve to study harder and go to Delhi for higher studies. Thus, this trip has definitely been an enriching experience for the students and the teachers alike.

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Report of Excursion Conducted in 2017 [Page 2]


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REPORT ON BAHONA COLLEGE EXCURSION, 2018, TO RAJASTHAN (From 05/12/18 to 12/12/18)

Submitted by: Ajit Kumar Borah,
Teacher –in-Charge,
Department of English
Bahona College.

Bahona College, Jorhat, has been imparting quality higher education to a large number of undergraduate students both in Arts and Science since its inception nearly six decades ago. Since travelling is an integral part of education, the college authority arranges study tours, field studies, awareness camps and excursions for the greater interests of the students from time to time. Earlier, the expenses were exclusively borne by the participating members. Fortunately, the government of Assam has been gracious enough to grant a substantial amount for annual excursions by college students for the last few years, our college too readily grabbed the opportunity and organized such excursions annually. Excursion for the year 2018 was to be led to Rajasthan as instructed and the same was scheduled to take place during winter vacation cum semester break. A group of 22 students (boys & girls), from both Arts and Science stream with three Teachers-in-charge undertook the journey by train on 05/12/2018. It came to a successful end on 12/12/2018 with a rewarding series of experiences for the students and the teachers alike. The following is a brief report on the itinerary and rich experiences garnered from the excursion.

The excursion began with a happy anecdote as 5th December was coincidentally the birthday of one of the Teachers-in-charge in the group. As all were on board the Abadh Assam Express at Mariani Station, all the members of the group wished her a very happy birthday and a happy journey. The teacher entertained all with a very melodious song. Almost all the members of the group joined her and the students started singing and dancing providing much entertainment to all present. The teacher offered dinner to all which was relished with thankfulness by all. Thus, the journey to Delhi from Mariani railway station became a memorable event for most

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Report of Excursion Conducted in 2018 [Page 1]


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of the group members for whom it was the first train journey and first experience of going out of their home state.

The teachers kept an eye on the movement of the students while allowing them to mix up and communicate with other co-passengers, preferably in Hindi and English with the intention to help improve their communication skills. The students readily complied with the instructions and the enjoyed each and every moment of the journey. They shared berths, talks and personal belongings quite happily and accepted even inconvenience to make room for their fellow group members and other passengers. The group was accompanied by a young travel guide from Guwahati who had been engaged for making the whole excursion enjoyable. Nothing unpleasant or inconvenient happened to the team and it reached New Delhi hale and hearty on 07/12/18. We headed towards a hotel arranged by our travel guide who worked for the D.S. Excursions. The accommodation and the food were quite satisfactory and all enjoyed sound sleep after a sumptuous dinner.

Early in the morning of 8th December the team boarded a luxury bus driven by a handsome Punjabi driver who seemed to be quite expert in his profession. As the bus headed towards Jaipur, the students started singing and dancing and sharing experiences with each other. On the way, the team had breakfast and lunch. We visited Tajmahal at Agra, one of the best monuments of the world, enroute Jaipur. Then we headed towards our destination- Jaipur. Accommodation in a Jaipur hotel had been arranged beforehand by the tour operator. All seemed to be happy on reaching Jaipur though it was pretty late due to heavy traffic on the way. All enjoyed mutton curry over dinner and had a good night's sleep as the next days were to witness history, culture and society of Rajasthan, one of the most colourful states of India.

On 9th December we set out early in the morning and headed towards Amber Fort, one of the most attractive and popular places of historical importance in North India. Students were explained in details the importance of these historical monuments and rich cultural heritage of Rajasthan. The group were amazed to know many things of Indian history and noted down the important pieces of information written on plaques. They were also taken to Neer mahal, the Jantar-Mantar, to the busy market areas of the pink city, to the Birla Temple and to a replica of rural Rajasthan- Chokki Dhani. All members participated in the

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Report of Excursion Conducted in 2018 [Page 2]


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Excursion Report 2020 Excursion to Digha & Kolkata

A team of young energetic students of Bahona College, led by Assistant Professor of English Mr. Ajit Kr. Borah and Assistant Professor of Mathematics, Dr. Manashjyoti Borah, set out on an Excursion to Digha & Kolkata on 4th March 2020. The team boarded a bus that took reached the Mariani Railway station on time to catch the Kolkata bound Kamrup Express.

The Team reached Howrah station in the wee hours of 6th March. They got fresh in the station, took breakfast and boarded the Digha Super Express. The students enjoyed this trip very much. All were excited to have a look at the Digha sea beach as for all of them it was the maiden trip to a sea beach. The team reached Digha railway station and moved to a pre-booked sea facing lodge near the beach. In the afternoon, all went out to the sea beach, studied the life style of the small vendors selling eateries and hand-made crafts. Some of the students collected few specimens of sea weeds and stones.

Next day, i.e. 7th March, the team moved to Mandarmani sea beach, some 80 K. M away from Digha. Most of the students eagerly observed the potentiality of rural sea side or river side tourism projects and innovative livelihood ways like fish farming and homestays in rural areas. The students enjoyed their time in riding speed boats and playing on the sea beach. Almost all of them collected specimen of sea life and memorabilia from the sea side stalls. In the evening they moved back to Digha Railway station and boarded the train to Howrah station. They stayed in a hotel in Kolkata and took rest for the night.

On 8th March, the team set out early in the morning to Alipore Zoological Park. All the students were excited and happy to see as wide range of flora and fauna the vast park offered to the visitors in the heart of the city. They talked to a few officials of the park and came to know much about its history, present management system and the way of treating the animals in captivity.

Then the students were taken to Kolkata science city which was a kind of wonderland for them. What they enjoyed most was the animation programme like the evolution of the homo-sapiens, time machine and the well managed museum showing the landmarks in scientific innovation and inventions.

Then the students were taken to Victoria Memorial where they excitedly witnessed the pieces of Indian history laden the colonial regime of the British. They could witness the historical marvels in the museum and felt the worth of the priceless socio-political and cultural heritage of the country. Then the team moved towards the hotel and took rest for the night.

On 9th March, the team checked out off their lodge and moved towards Birla Science City which offered them a scope to learn about many landmark events in scientific research and development. They were taken to have a glimpse of the famous Eden Garden stadium at


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Report of Excursion Conducted in 2020 [Page 1]


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salt Lake. Then the team moved to the Dakhineswar Temple, one of the serene and beautiful places to visit in Kolkata. In the evening the team moved towards Howrah station and boarded the Marianin Bound Kamrup Express. The team reached Mariani in the morning of 11th March, 2020. Everyone was safe and sound in spite of the rising cases of covid-19 infection in the Country. All the members of the team reached home happily with loads of happy memories of the excursion, 2020.


Principal
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Report prepared by,

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Teacher – in-charge for Excursion, 2020.
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Report of Excursion Conducted in 2020 [Page 2]


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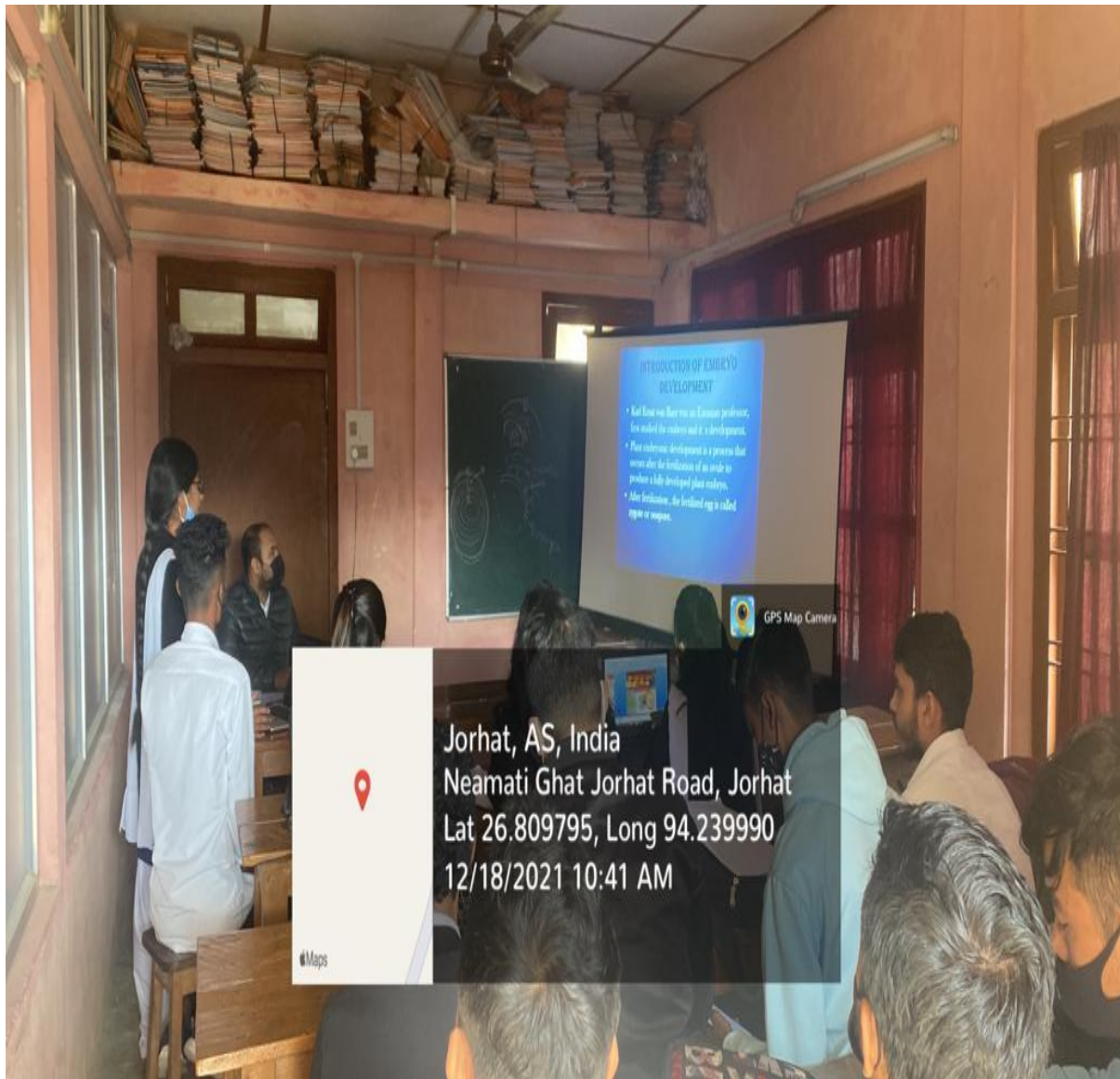



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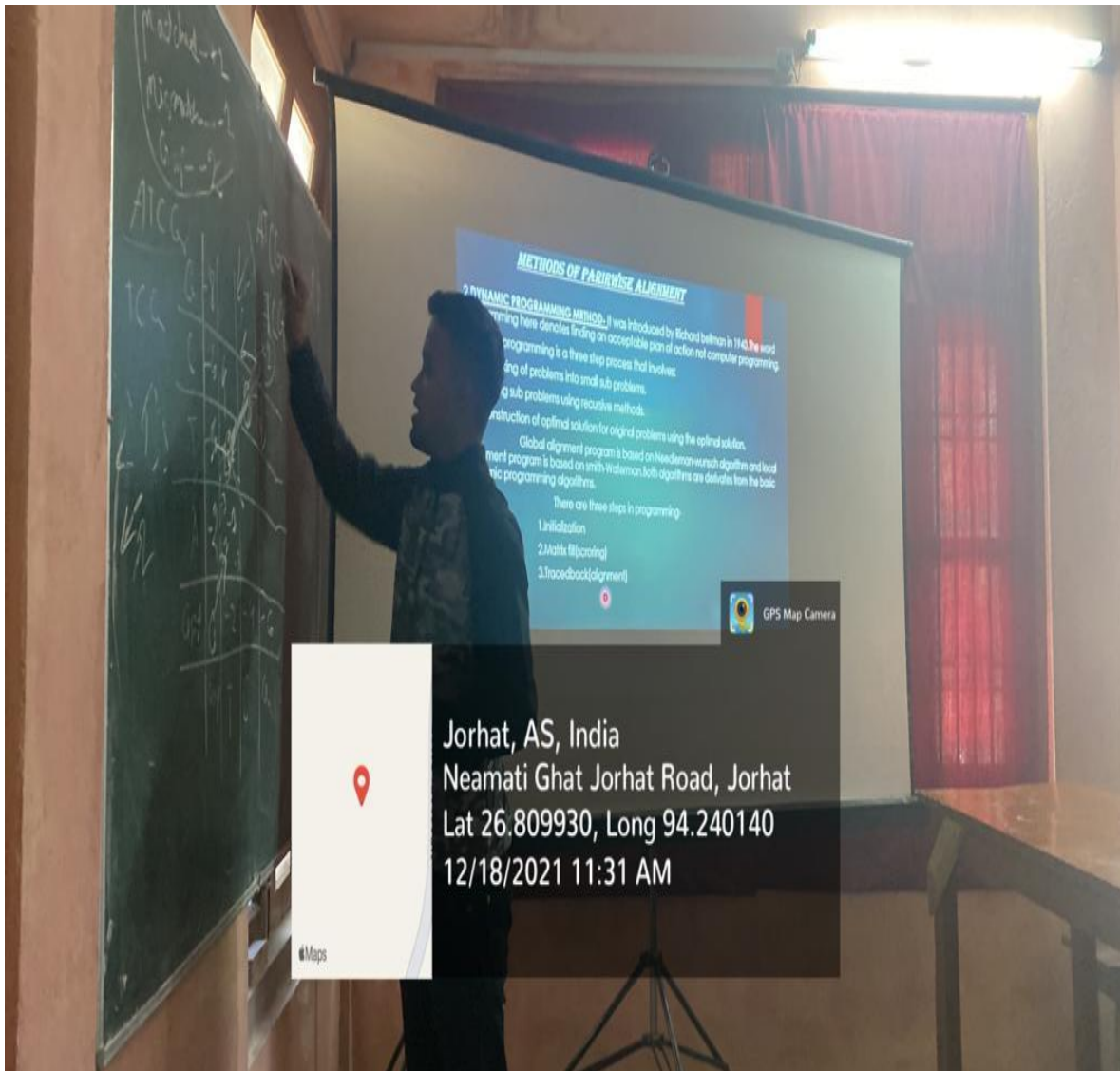



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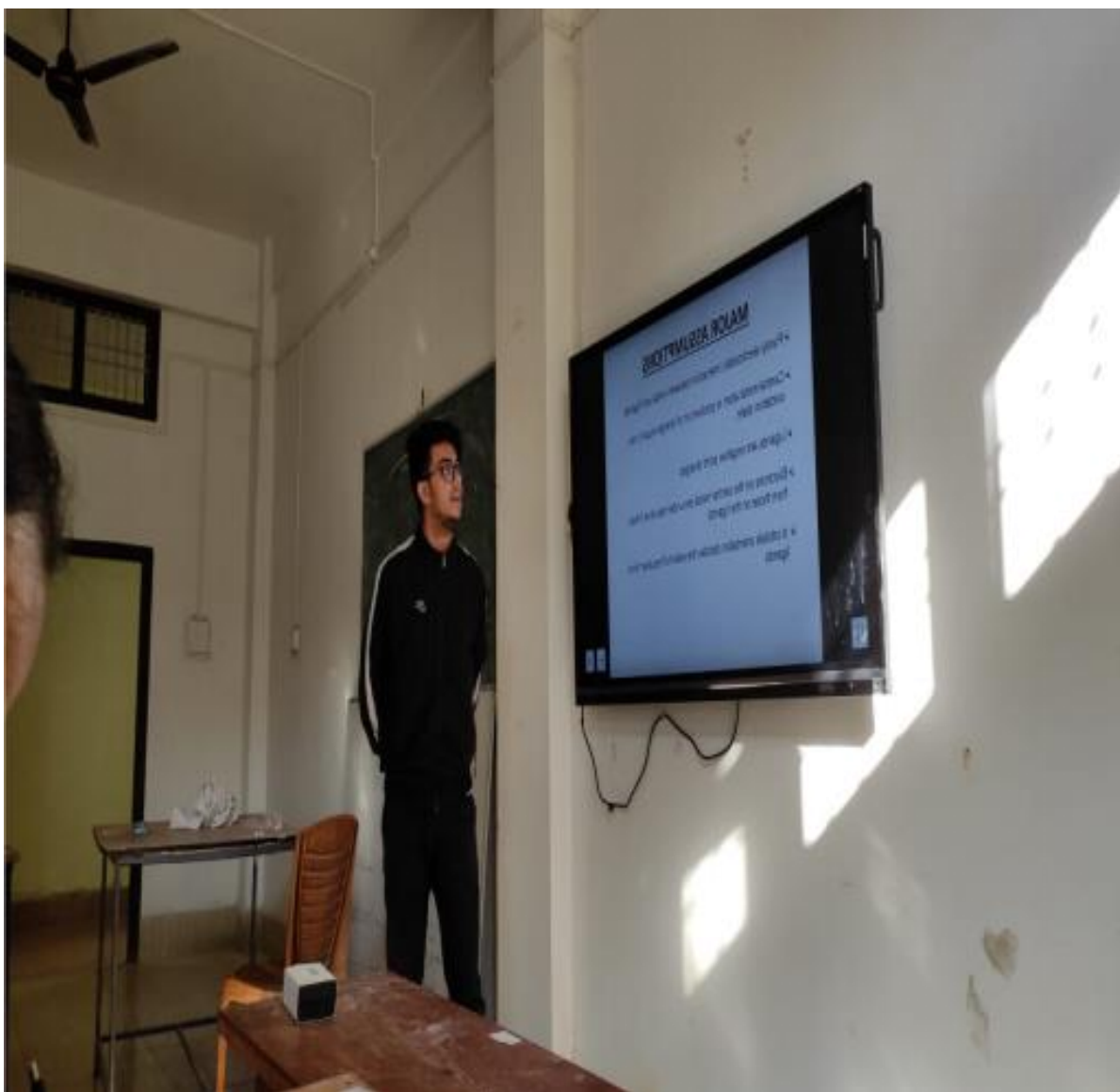


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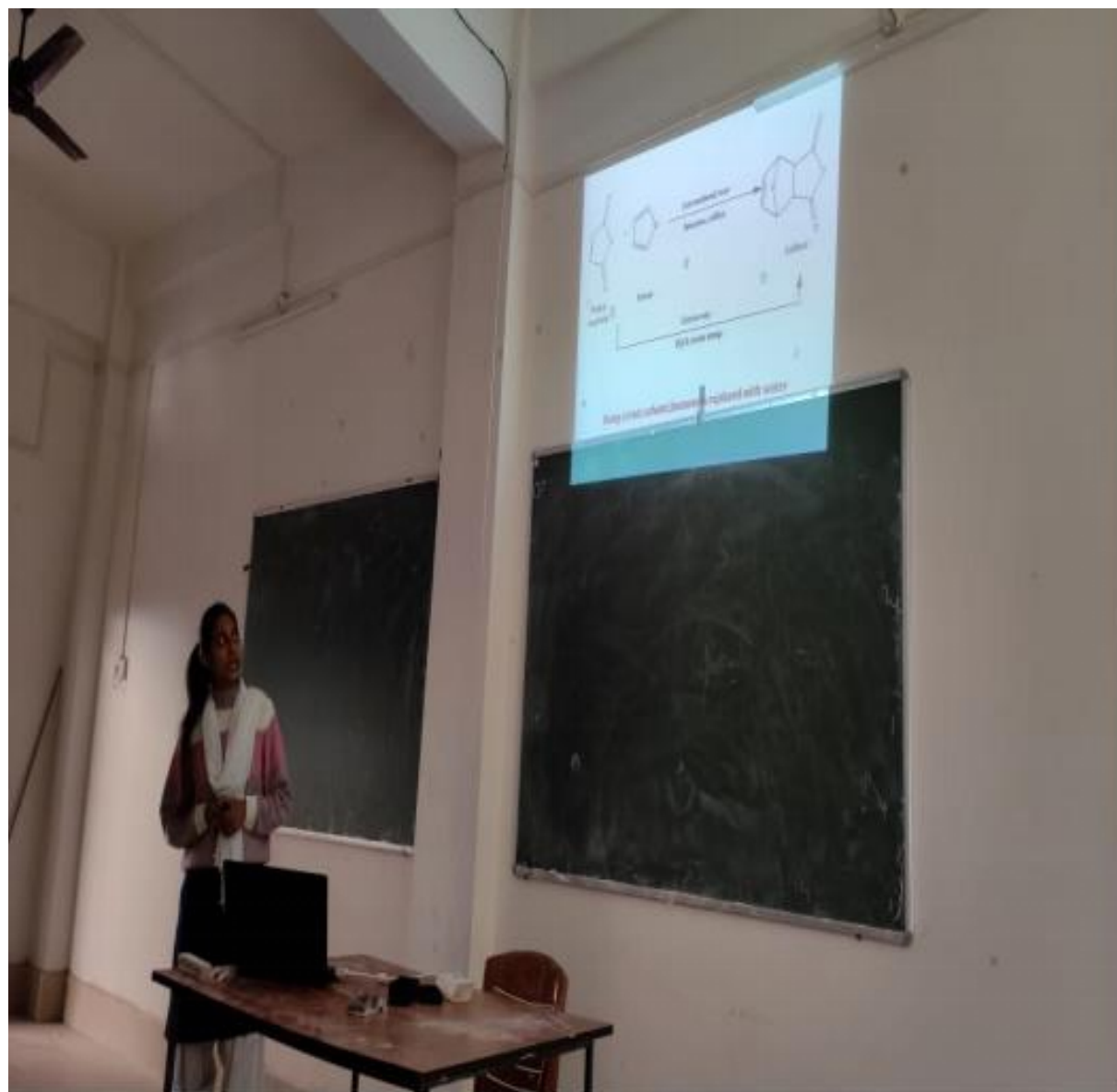


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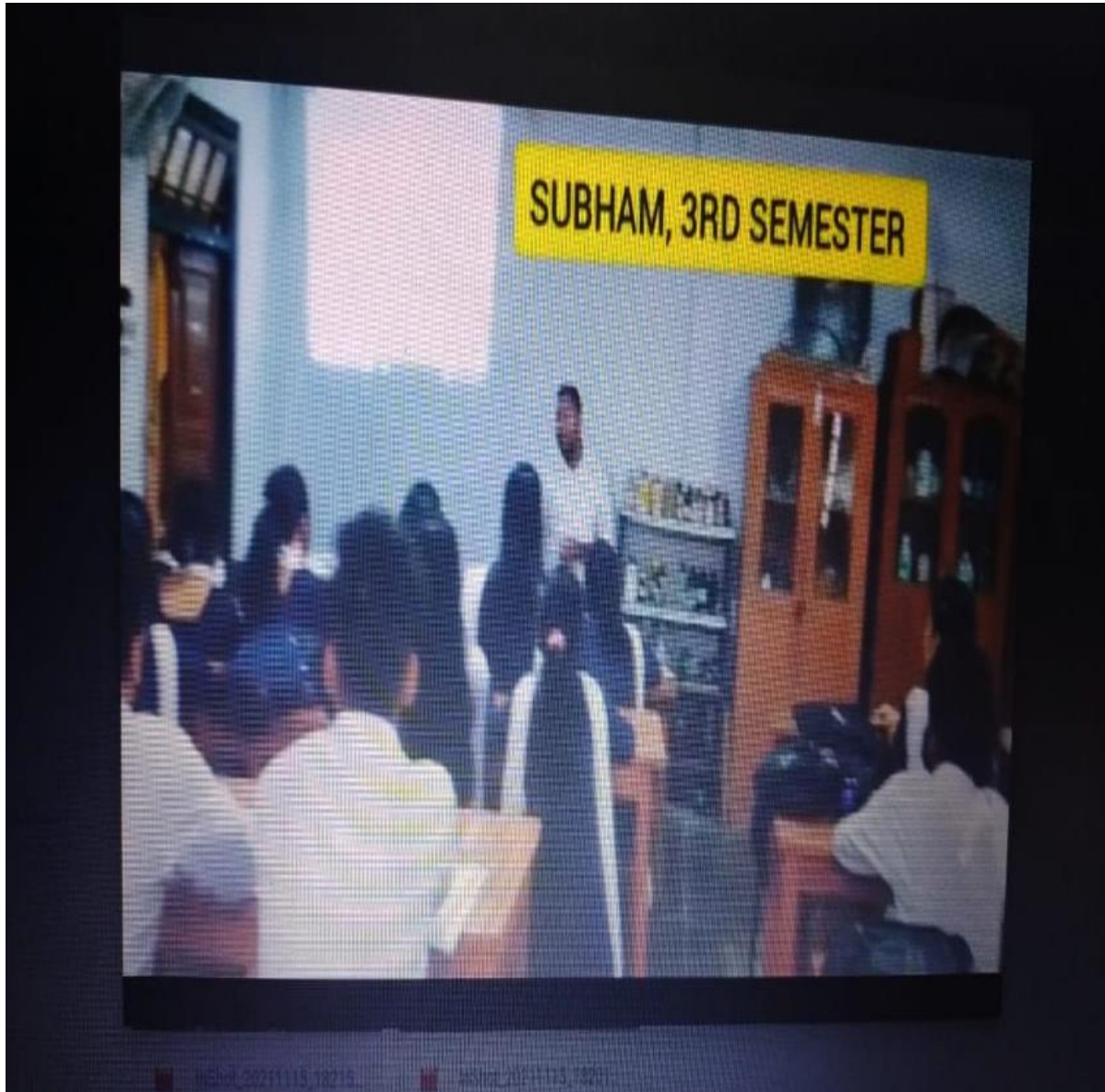



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Sustainable and cost-effective waste water treatment in rural areas

Swarajdeep Saikia¹, Anil Engti¹
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ABSTRACT
Wastewater contains lots of organic matter and the three main nutrients for plant growth and development like nitrogen, phosphorus and potassium. The nutrients in domestic wastewater and organic household waste can be utilized to produce enough food for the world population. However, taking decisions on sustainable and cost-effective waste-water treatment system is a real problem in India specifically in rural areas. Therefore, the main purpose of this paper is to provide information as well as guidance on taking decisions for an efficient and cost-effective wastewater management system in rural areas. Specifically, the paper aims to inform on the various cost-effective and sustainable options for wastewater collection and their treatment and offers guidance to select appropriate system for sanitation and wastewater management. This paper briefly reflects the sustainability analysis of wastewater treatment system such as recycling. The main focus is on sustainable technologies for wastewater treatment which may be beneficial for both rural and urban areas.

Keywords: Sustainability, water, waste, cost-effective.

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SYNTHESIS OF SOME POTENT INTERMEDIATES FOR HETEROCYCLES

(Winter Research Program: Dec' 2016 –Jan'2017)

Submitted by,

Chayanika Dutta

B.Sc. 6th sem, Bahoma College,

Jorhat; Assam



Carried out under the Supervision of

Dr. Pranjal Gogoi

Scientist, Applied Organic Chemistry Group

Chemical Science and Technology Division

CSIR-North East Institute of Science & Technology

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Declaration

I, Ms. Chayanika Dutta, winter trainee, Chemical Science and Technology Division, CSIR-North East Institute of Science and Technology, Jorhat-785006, Assam, declare that this report entitled "SYNTHESIS OF SOME POTENT INTERMEDIATES FOR HETEROCYCLES" is the result of my winter project. The duration of this project is Dec' 2016- Jan' 2017. I have carried out my project work under the guidance of Dr. Pranjal Gogoi, scientist, Applied Organic Chemistry Group, Chemical Science and Technology Division, CSIR-North East Institute of Science and Technology. I have fulfilled all the requirements for this winter project.

Chayanika Dutta
Chayanika Dutta.

CERTIFICATE
TO WHOM IT MAY CONCERN

It is to certify that Chayanika Dutta, a student of BAHONA COLLEGE, JORHAT of B.Sc. 6th semester has completed a project report on "SYNTHESIS OF SOME POTENT INTERMEDIATES FOR HETEROCYCLES" under my guidance and supervision. She has fulfilled the requirement laid down in the project report.

Pranjal Gogoi
(Dr. Pranjal Gogoi)

Scientist, Applied Organic Chemistry Group
Chemical Science and Technology Division
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ACKNOWLEDGEMENT

The preparation and completion of this report is not an individual effort. This gives me immense pleasure to express my sense of gratitude to **Dr. Pranjal Gogoi**, outstanding scientist, Applied organic Chemistry Division, CSIR-NEIST for his individual guidance, suggestions and encouragement throughout my whole project. I express my deepest sense of gratitude for giving me his valuable time and support.

I express my gratefulness to Dr. D. Ramaiah, Director, CSIR-NEIST, Jorhat, for allowing me and providing with the laboratory facilities to carry out my winter project work.

I also acknowledge the help and support rendered by head of the Applied Organic Chemistry Group, Chemical Science and Technology Division, CSIR-NEIST, Dr. P.J. Bhuya and the entire scientific staff for their constant encouragement.

The project would not have been possible for me without the help and support of Limi ba, Kashmiri ba, Aswini da, Avilash da and Kumud da. I have been very fortunate to be around very pleasing and helpful people who were always there to help me in any kind and make me feel comfortable in a completely new environment.

Last but not the least, I would take the opportunity to thank my parents for their innumerable support through everything I do.

Chayanika Dutta.

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ABBREVIATIONS USED

1. DCM : dichloromethane
2. DMF : dimethylformamide
3. Et : ethyl
4. g : gram
5. h : hour
6. TLC : Thin layer chromatography
7. Me : methyl
8. Min : minute
9. mg : miligram
10. mol : mole
11. IR : infrared
12. NMR : nuclear magnetic resonance
13. R_f : Retension Factor
14. Hz : Hertz
15. MHz : Mega Hertz
16. $^{\circ}\text{C}$: Degree centigrade

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GENERAL INTRODUCTION

The main focus of this project is the synthesis of β -chloro- α,β -unsaturated aldehyde as intermediate which could be used as a synthon for various heterocycles. Most of the biologically active compounds are comprised of heterocycles, many of which are employed in regular chemical practice. The heterocyclic compounds are widely distributed in nature and play a vital role in the metabolism of all living cells. Some of these are natural products; for example, antibiotics such as penicillin, cephalosporin; alkaloids such as quinine, morphine and reserpine etc.

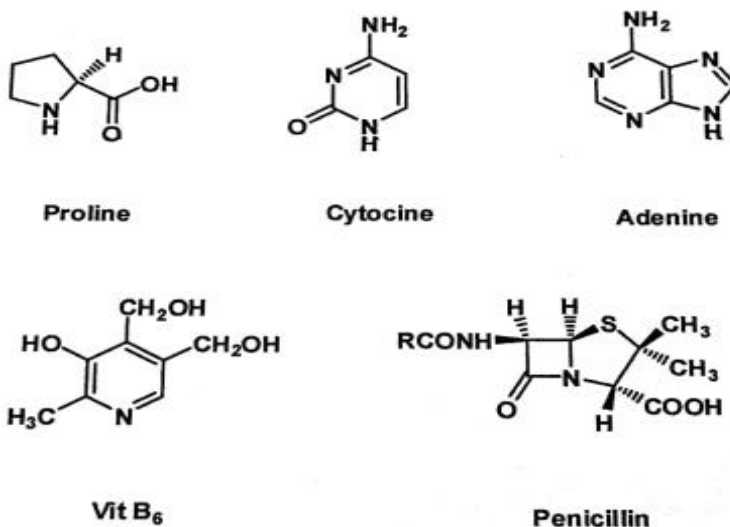


Fig 1: Structures of some biologically important molecules containing heterocyclic ring

In addition, synthetic heterocyclic compounds are also found in various drugs and they exhibit various activities such as anticancer agents, hypnotics, modifiers, veterinary products, agrochemicals etc.

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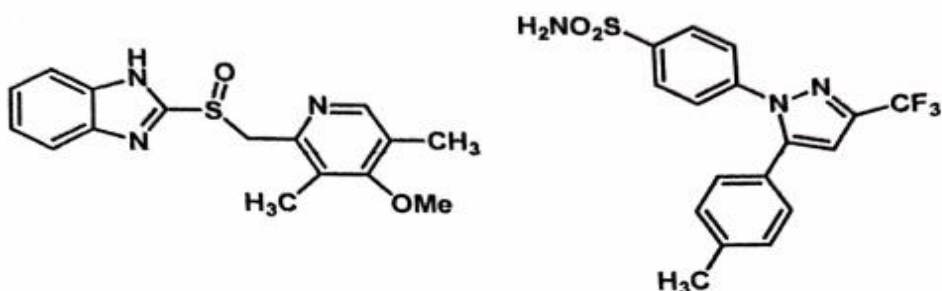


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Omeprazole(antiulcurative)

Celecoxib(antiarthritic)

Fig 2: examples of some drugs containing heterocyclic ring

The β -halo aldehydes are very interesting compounds, which could be transformed to various fused heterocycles by using the reactivity of halide for nucleophilic substitution in combination with the various possibility of transformation of aldehyde functionality. Some examples of β -chloro- α, β - unsaturated aldehyde are shown in Fig 3.

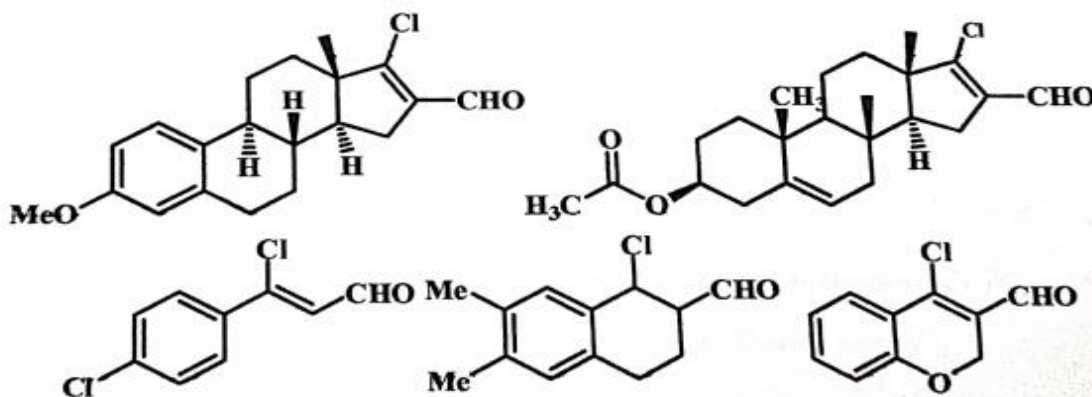


Fig 3: Examples of some β -chloro- α, β - unsaturated aldehydes

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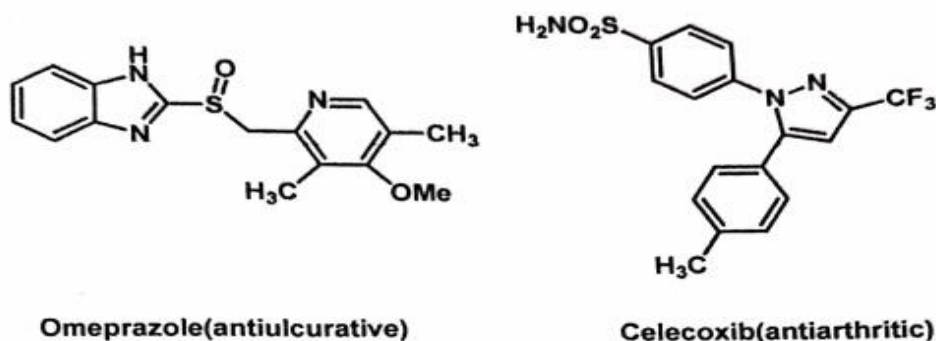


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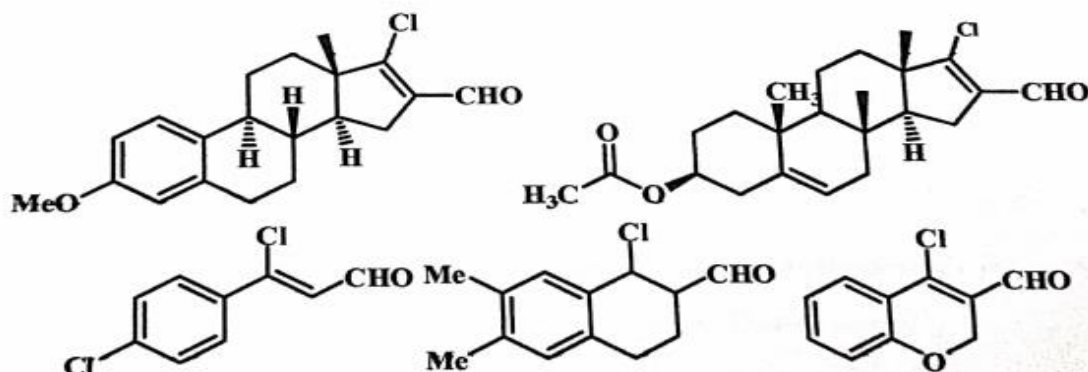


Fig 3: Examples of some β -chloro- α, β - unsaturated aldehydes

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β -Chloro- α,β -unsaturated aldehyde (chloroformyl): The β -chloro- α,β -unsaturated aldehyde (chloroformyl) has been explored as synthetic synthon for different heterocycles as shown in fig 4. They have been used for the synthesis of various heterocycles such as pyridine, pyrimidines, thiophene, furan, coumarin etc.

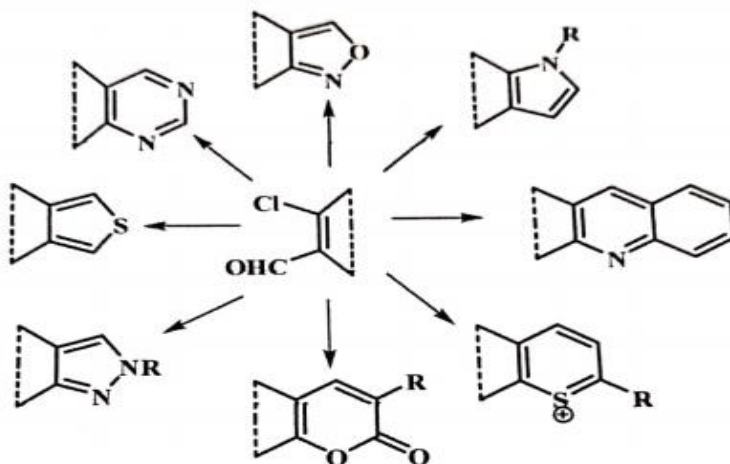
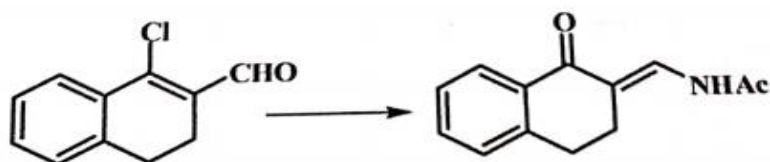


Fig 4: Some synthetic applications of β -chloro- α,β -unsaturated aldehyde

SOME SYNTHETIC APPLICATIONS OF CHLOROVINYL ALDEHYDE:

1. **Synthesis of β -ketoenamide:** 1-Chloro-3,4-dihydronaphthalene-2-carboxaldehyde can be used as starting material for the synthesis of ketoenamide.



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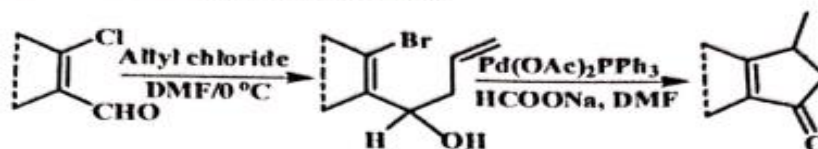
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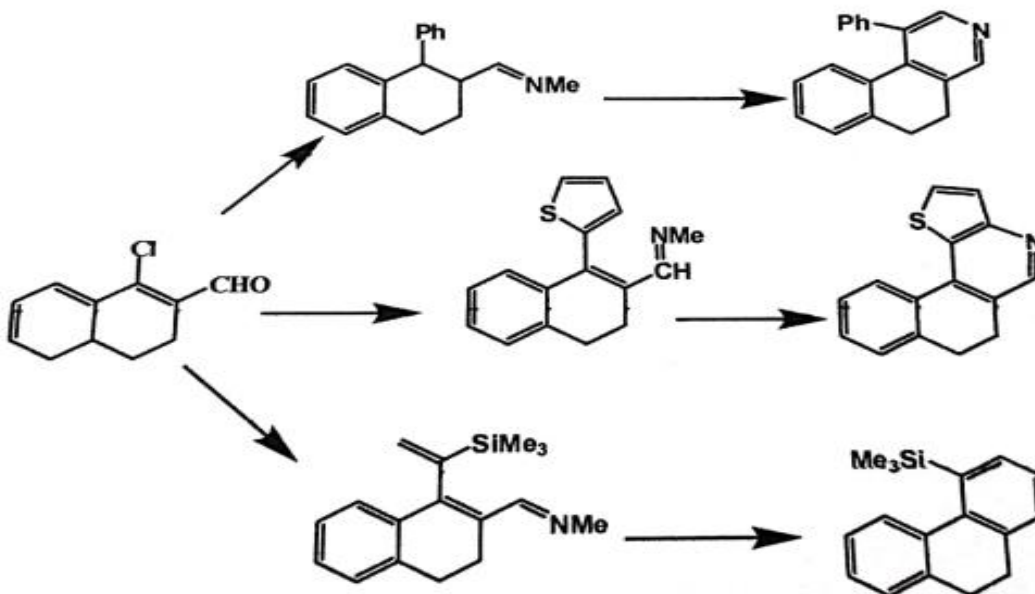
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2. Synthesis of cyclopentanone containing fused rings: Fused carbocycles can be synthesized from chlorovinyl aldehyde.



3. Synthesis of 5,6-dihydrobenz isoquinoline: Using 1-chloro-3,4-dihydronaphthalene-2-carboxyaldehyde as starting materials, 5,6-dihydrobenz isoquinolines can be synthesized.



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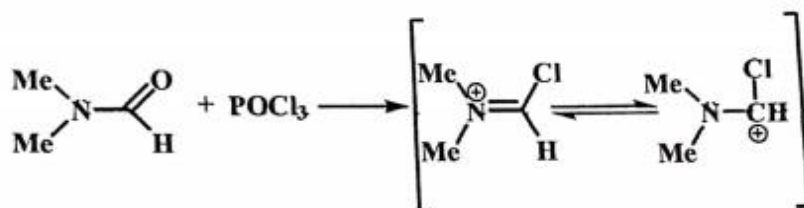

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VILSMEIER-HAACK REACTION

The Vilsmeier- Haack reaction (also called the Vilsmeier reaction) is the chemical reaction of a substituted amide with phosphorous oxychloride and an electron-rich arene to produce an aryl aldehyde or ketone. In 1927, Vilsmeier and Haack discovered that N,N-dimethylformamide formylated aniline derivative in presence of phosphorous trichloride. The classical Vilsmeier Haack reaction involves electrophilic substitution of a suitable carbon nucleophile with a chloromethyleneiminium salt. Chloromethyleneiminium salt is prepared by treating DMF with POCl_3 , at a low temperature.



Vilsmeier reaction is one of the most widely used reactions especially for formylation of various organic substrates in organic chemistry. It plays an important role in the conversion of organic compounds into its corresponding chlorovinyl aldehydes.

Due to the importance of chlorovinyl aldehydes in synthesis of various organic compounds, it is important to synthesize these compounds. Therefore, I have synthesized some chlorovinyl aldehydes using various acetophenones as starting materials.

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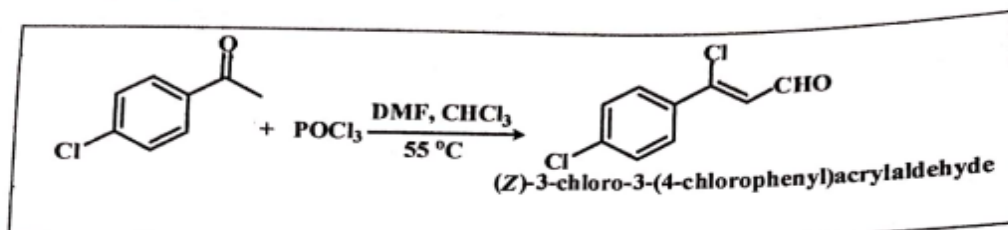
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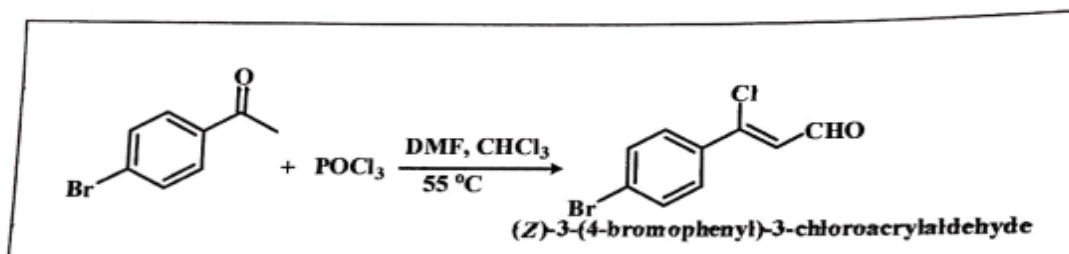
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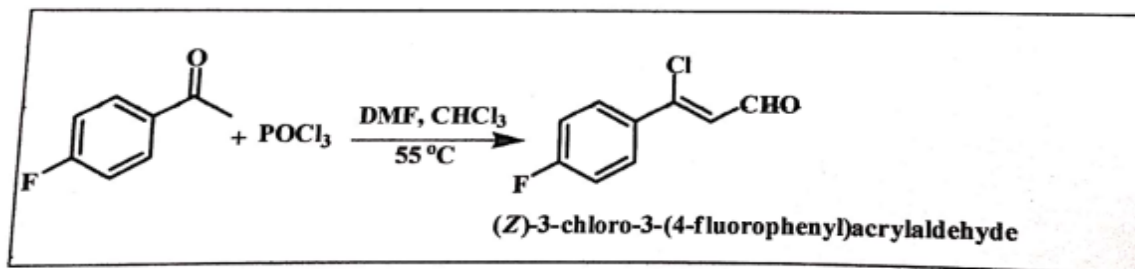
Scheme 1: Preparation of (Z)-3-chloro-3-(4-chlorophenyl)acrylaldehyde from 4'-chloroacetophenone.



Scheme 2: Preparation of (Z)-3-(4-bromophenyl)-3-chloroacrylaldehyde from 4'-bromoacetophenone.



Scheme 3: Preparation of (Z)-3-chloro-3-(4-fluorophenyl)acrylaldehyde from 4'-Fluoroacetophenone.



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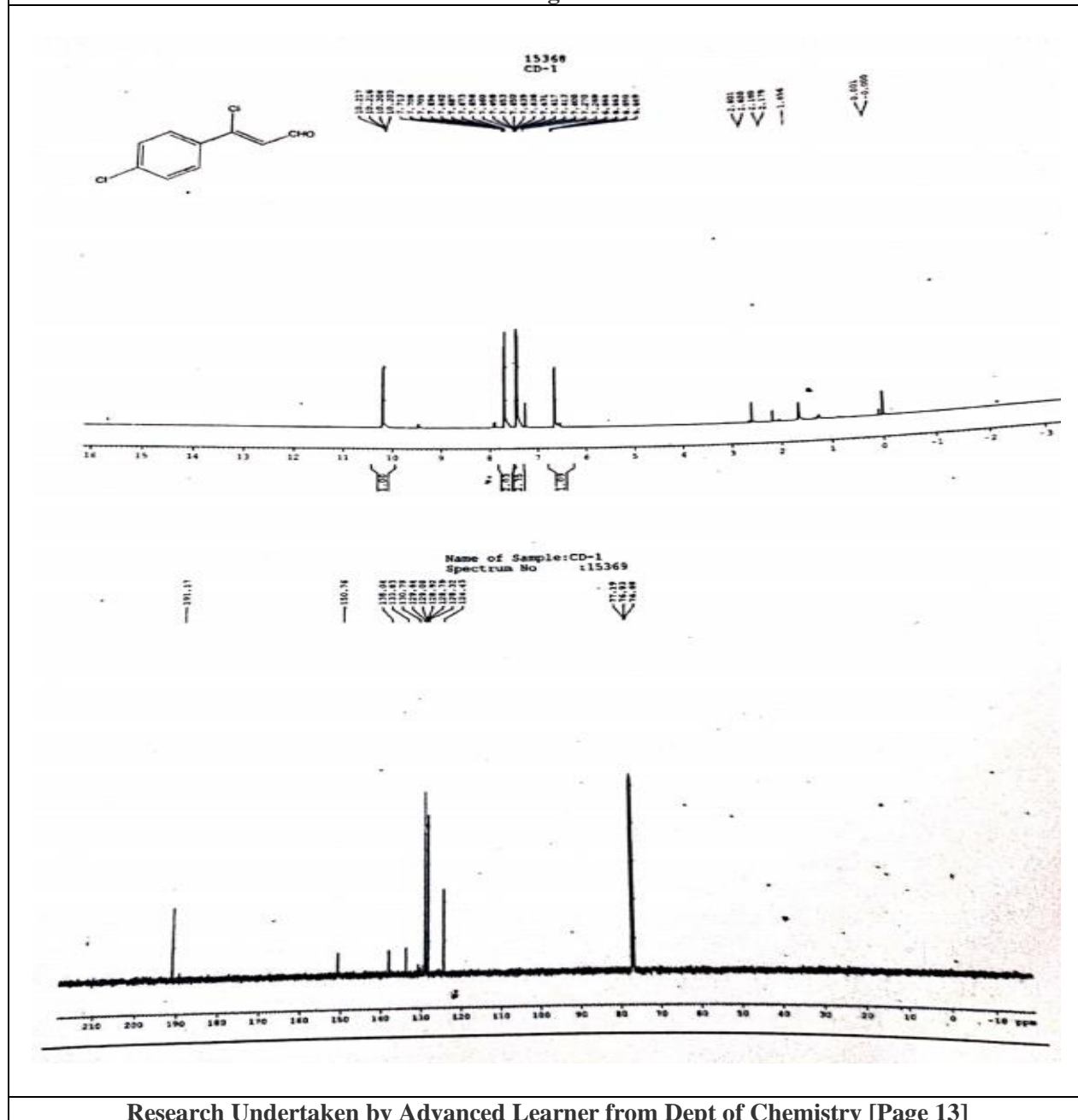


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General procedure for the preparation of β -chloro- α,β -unsaturated aldehyde:

A solution N, N-dimethylformamide (0.7 ml, 10 mmol) in anhydrous chloroform (15 ml) was cooled in ice bath. Phosphorous oxychloride (0.46 ml, 5 mmol) was added drop-wise over a period of 10 minutes. The resulting white suspension was warmed to room temperature and stirred for another 30 minutes. A solution of acetophenone (0.13 ml, 1 mmol) in chloroform (15 ml) was added drop-wise and the reaction mixture was refluxed for three hours. The reaction mixture was then poured into ice water. NaHCO_3 was carefully added to neutralize the acids and the mixture was extracted with chloroform (three times). The organic part was then washed with cold water followed by dried over sodium sulphate. The crude was purified using column chromatography [silica gel (60-120 mesh)]

CONCLUSION

We have synthesized some β -chloro- α,β -unsaturated aldehydes using various substituted acetophenones. All the products were isolated with satisfactory yields and characterised by ^1H and ^{13}C NMR. The synthesized β -chloro- α,β -unsaturated aldehydes could be used as intermediates for the synthesis of various heterocyclic compounds.

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Project Title:


**To study the major nutrients content in
three different types of Organic Manures**

**Raktim Dutta
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Acknowledgement

The project work at Tocklai Tea Research Institute was a great privilege and opportunity for me to learn many things regarding activities of a Chemistry Lab. I would like to offer my heartiest thanks to Dr. A K Barooah, Director, Tocklai Tea Research Institute, for giving permission to work in this institute and liberty to access various facilities in the laboratory.

I also express my gratitude to Dr. Raktim Pal, Senior Scientist and In-charge, Analytical Service Department, for his valuable suggestions, encouragement and support during the course of the project.

It is a great pleasure to offer my gratitude and express my deep appreciation and indebtedness to my supervisor Mr. P.K Dutta, Sr. Technical Officer, Analytical Service Department, Tocklai Tea Research Institute, Jorhat, for his valuable guidance. It was a wonderful experience for me to work under his supervision. His necessary suggestions and advices during preparation of the project are duly acknowledged.

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August 3, 2017

TO WHOM IT MAY CONCERN

This is to certify that **Sri Raktim Dutta**, who is pursuing B. Sc., Chemistry, (5th Sem), from Bahona College, Jorhat, has successfully completed his Training Programme on the topic of **"To study the major nutrients content in three different types of organic manures"** under the supervision of Mr. P.K. Dutta, Sr. Technical Officer and Dr. R. Pal, Sr. Scientist & Incharge, of the Department of Analytical Service of this institute for the period of June - July, 2017.

He was found to be sincere, hardworking, technically sound and result oriented. He worked well as a part of the team during the period.

We wish him success in future.


Administrative Controller

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Abstract

A study was undertaken to determine the major nutrient contents (N, P, K) in three different organic manures viz. Vermicompost, Decomposed cattle manure and a commercial Organic manure sample collected from different sources. The samples were analysed by standard methods and test results were compared for their nutrient contents. Amongst the three organic manures analysed Vermicompost was found to be rich in terms of nutrient contents followed by Decomposed cattle manure.

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Introduction

Manures may be defined as materials which are organic in origin, bulky and concentrated in nature and capable of supplying plant nutrients and improving soil physical environment having no definite chemical composition produced from animal, plant and other organic wastes and by products.

Organic manures are included well rotten farm yard manure (FYM), compost, vermicompost, green manures etc. Generally farm yard manures and composts are the decomposed products of agricultural by-products (animals and crops). Whereas green manures may be defined as materials which are un-decomposed green plant tissues susceptible to decomposition in the soil after incorporation.

The objective of organic cultivation is to have an ecologically sustainable plantation, aimed at the conservation of ecology and natural habit without polluting soil, air and water. So, Organic farming is a method of crop and livestock production that involves much more than choosing not to use pesticides, fertilizers, genetically modified organisms, antibiotics and growth hormones.

Organic manures are of different types i.e. mainly **bulky** and **concentrated** in nature

Bulky organic manures generally contain fewer amounts of plant nutrients as compared to concentrated organic manures. The concentrated organic manures are mainly derived from raw materials of animal or plant origin.

The amount of nutrients content varies with the nature and kind of manures. No definite composition of NPK and other micro-nutrients can be given. However, all oil cakes either edible or non-edible contains differential amount of N, P and K etc.

Concentrated organic manure may be defined as a material of organic origin derived from raw materials of animal or plant, without bulky in nature having no definite composition of plant nutrients.

Some most common such organic manures are oil cakes "edible to cattle (e.g. mustard oil cake, groundnut oil cake, till oil cake etc.) and non-edible to cattle (e.g. neem oil cake, mahua oil cakes etc.); blood-meal, fish manure, bone meal etc.

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Materials and Methods

(A) DETERMINATION OF MOISTURE CONTENT IN ORGANIC MANURE

(a) Equipments and Apparatus:

1. Balance
2. Hot air oven
3. Porcelain crucible

(b) Procedure:

5g of the fresh organic manure sample (in replicate) was accurately weighed in previously weighed clean, dry porcelain crucibles. The crucibles were placed in a hot air oven at 105°C for overnight, and then transferred to a desiccator for cooling. The dry weight of the samples was taken to a constant mass. The loss in mass is the moisture content.

(c) Calculation:

The moisture content was calculated by using the following formula:

$$\% \text{ Moisture content (on fresh weight basis)} = \frac{W2 - W3}{W2 - W1} \times 100$$

Where, W1 is the weight of the empty basin

W2 is the weight of the fresh sample with basin

W3 is the weight of the sample with basin after drying

(B) DETERMINATION ORGANIC MATTER IN ORGANIC MANURE

(a) Equipments and Apparatus:

1. Balance
2. Hot air oven
3. Porcelain crucible

(b) Procedure:

5g of well mixed fresh organic manure sample (in replicate) was weighed in a previously clean dry silica crucible. The crucible was placed in a muffle furnace at 550°C for four hours. The crucible was removed from the furnace when temperature goes down below 200°C and allowed to cool in a desiccator and weighed to constant mass. The residue represents the ash and loss in mass represents the moisture and organic matter.

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(c) Calculation:

The organic matter content was calculated by using the following formula:

$$\% \text{ Organic matter content} = 100 - M - Z$$

Where, M is the moisture content in the sample and
Z is the total ash content

(C) DETERMINATION OF pH:

(a) Equipments and Apparatus:

1. Weighing balance
2. pH meter (Fig-1)



Fig-1: pH meter

3. Horizontal rotary shaker
4. Conical flask (capacity-100ml)
5. Beaker (capacity-100ml)
6. Measuring cylinder (capacity-50ml)

(b) Principle: pH is a measure of hydrogen ion concentration in a solution. Mathematically it is the negative logarithm of hydrogen ion concentration.

$$\text{pH} = -\log[\text{H}^+]$$

A pH meter is used to measure the hydrogen ion activity in aqueous solutions, indicating its acidity or alkalinity express as pH. The pH meter measures the difference in electrical potential developed between a glass electrode and a reference electrode (calomel electrode). The difference in electrical potential relates to the pH of the solution.

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(c) Procedure:

20 g of test sample (air dried and sieved) is taken into a 100ml conical flask and added 50 ml of distilled water of pH 7.00 with a measuring cylinder. The content was shaking on a horizontal rotary shaker for 30 minutes. The suspension was transferred into a beaker and immersed the combine electrode into the suspension. The pH of the samples was measured in the digital pH meter after calibrating the same with standard buffer solution of pH 7.00 and 4.00.

(D) DETERMINATION OF CARBON IN TEST SAMPLE:

(a) Reagents and Apparatus:

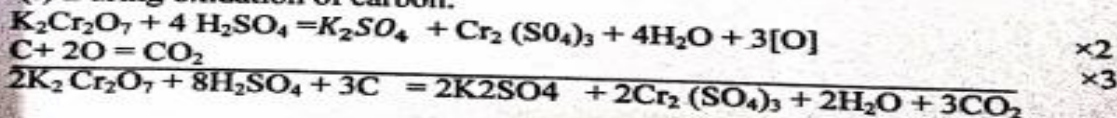
1. Weighing balance
2. Conical flask (500ml capacity)
3. Volumetric flask (capacity-1000ml)
4. Burette (capacity-50ml)
5. Pipette (capacity-10ml)
6. 1N Potassium dichromate solution
7. Concentrated sulphuric acid (98%)
8. Distilled water
9. Solid sodium fluoride
10. Diphenylamine
11. 0.5N Ammonium ferrous sulphate solution

(b) Principle:

The sample is treated with a known excess volume of standard $K_2Cr_2O_7$ solution in presence of concentrated H_2SO_4 . The $K_2Cr_2O_7$ reacts with the H_2SO_4 to produce nascent oxygen which oxidizes carbon to CO_2 . The heat of dilution of the acid facilitates the reaction. The excess unused $K_2Cr_2O_7$ is titrated back against a standard solution of ferrous ammonium sulphate in presence of orthophosphoric acid and NaF using diphenylamine indicator. At the end point of titration the colour changes through blue to green. The NaF flocculates the sample particles in suspension and orthophosphoric acid sharpens the colour change at end point.

(c) Reaction:

(i) During oxidation of carbon:



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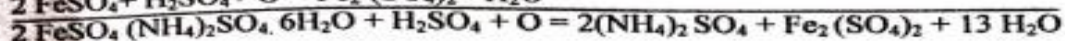
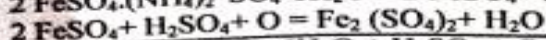
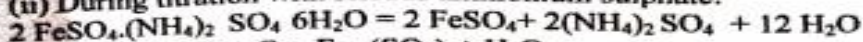
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(ii) During titration with ferrous ammonium sulphate:



(d) Procedure:

0.50g of test sample is taken into a 500ml conical flask and added 10ml of 1N Potassium dichromate solution. Then 20ml of sulphuric acid is added to the above mixture and mixed the content gently for one minute. Then the content is allowed to stand for 20-30 minutes for complete the reaction and then the mixture is cooled down to the room temperature. Then 170ml of water is added to the mixture. Then 0.2g of sodium fluoride and 10ml of orthophosphoric acid is added to the content and shaken gently. Finally 30 drops of diphenylamine indicator is added to the content and titrated against 0.5N Ammonium ferrous sulphate solution taken into a burette.

(e) Calculation:

$$\% \text{ Carbon} = \frac{(B - S) \times 3.869}{S \times w}$$

Where, B is the volume (in ml) of 0.5N Ammonium ferrous sulphate solution consumed in titration with blank determination

S is the volume (in ml) of 0.5N Ammonium ferrous sulphate solution consumed in titration with sample determination

W is the sample taken for test in gram

(E) NITROGEN IN ORGANIC MANURE

(a) Equipments, Apparatus and Reagents :

1. Weighing Balance
2. Kjeldahl digestion unit
3. Kjeldahl distillation unit.
4. Burette and pipette
5. Conc. Sulphuric acid salicylic acid mixture
6. Catalyst mixture (Potassium sulphate & Copper sulphate in 10:1 ratio)
7. Sodium hydroxide solution 45%
8. Hydrochloric acid or Sulphuric acid 0.1N
9. Boric acid 4%
10. Mixed indicator solution
11. Glass bead

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(b) Procedure:

(i) Digestion: 0.20g of air dried and ground organic manure sample is taken in 100ml digestion tube. To it added 4g of catalyst mixture and then added 10ml of Conc. Sulphuric acid with rotating the flask to ensure complete contact of the acid with the sample. The mixture is shaken for some time after adding a few glass bid to avoid bumping and then placed in Kjeltac block digestion unit by raising the temperature from 250°C to 400°C in 15min and finally kept at 400°C for 45min. Then the content is allowed to cool. The digested mixture is transferred to a 300ml Kjeldahl flask quantitatively and diluted accordingly.

(ii) Distillation: 25ml of 4% boric acid solution is pipette out in a receiver flask and added 5 drops of mixed indicator solution. The flask is connected to the distillation apparatus so that the end of the delivery tube is dipped into the boric acid solution. Then the Kjeldahl flask containing the digested material is connected to the distillation apparatus and added about 50ml of 45% Sodium hydroxide solution it in such a way that it runs downs to the bottom of the flask without mixing. The mixture is heated for boiling and continued distillation steadily till about 150ml of the distilled have been collected.

(iii) Titration: The distillate is titrated against 0.1N HCl or H₂SO₄ till the blue color just disappears and tends to turn pink. A blank was done without adding the substance under analysis and titrated in the same way.

(c) Calculation:

$$\% \text{ Total N} = \frac{(T - B) \times S \times 0.014 \times 100}{W}$$

Where, T is the volume of standard acid used in the titration of sample determination

B is the volume of standard acid used in the titration of blank determination

S is the strength of the standard acid used in the titration

W is the weight of the sample in gram taken for the test

(F) PHOSPHOROUS AND POTTASIAM IN ORGANIC MANURE

(a) Apparatus and reagents:

1. Weighing Balance
2. Colorimeter
3. Flame photometer
4. Volumetric flask (Capacity-250ml & 50ml)
5. Whatman No 42 filter paper
6. Reference standard of Phosphorous and Potassium
7. Concentrated nitric acid

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8. Perchloric acid
9. Ammonium molybdate
10. Concentrated hydrochloric acid
11. Stannous chloride

(b) Digestion:

0.50g of air dried and sieved test sample was taken in a conical flask and added gently 30ml of Conc. Nitric acid and 5ml Perchloric acid and boiled the mixture on a hot plate until dense white fumes ceases to form. The mixture is cooled and transferred the digested material to a 250ml volumetric flask, diluted with distilled water and made the volume up to the mark. Then mixed well and filtered using Whatman No.42 filter paper. The filtrate is used for the determination of phosphorous and potassium.

(c) Determination of Phosphorous:

(i) Principle:

The determination of phosphorous is based on Lambert and Beer's law using a colorimeter or a spectrometer.



Fig-2(a): A ERBA colorimeter

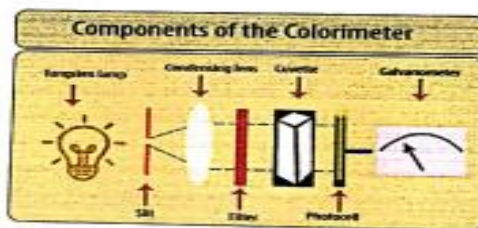


Fig-2(b): Component of a colorimeter

When light falls upon a homogeneous medium a portion of the incident light is reflected, a portion is absorbed within the medium, and the remainder is transmitted. If the intensity of the incident light is expressed by I_0 , that of the absorbed light I_a , that of the transmitted light by I_t and that of the reflected light by I_r , then:

$$I_0 = I_a + I_t + I_r$$

As per Lambert law, when monochromatic light passes through a transparent medium, intensity of the emitted light decreases exponentially as the thickness of the absorbing medium increases, arithmetically express by

$$I = I_0 e^{-kx} \text{----- (i)}$$

Where, k is the constant for the wavelength and absorbing medium used,

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I is the light intensity after it passes through the medium, and x is the thickness of the absorbing medium.
As per Beer law, the intensity of a beam of light decreases exponentially as the concentration of the absorbing substance increases, now replacing the constant k of Lambert law by its equivalent ϵc for solution, we can sum up the two laws into a single equation as,

$$I = I_0 10^{-\epsilon c x} \text{ ----- (ii)}$$

Where c is the concentration of the solute in moles/litre and ϵ is a constant characteristic of the solute but independent of its concentration in solution. This constant is known as molecular absorption coefficient.
Equation (ii) may be put in the form:

$$\text{Log } I_0 / I = \epsilon c x \text{ ----- (iv)}$$

The quantity $\text{log } I_0 / I$ is called *optical density D*, or *absorbance A* or *extinction E*.

Experimental measurements are usually made in terms of **transmittance (T)**, which is defined as:

$$T = I / I_0$$

where I is the **light intensity** after it passes through the sample and I_0 is the **initial light intensity**. The relation between absorbance A and transmittance T is:

$$A = \text{log } 1/T = \text{log } (I_0 / I)$$

(ii) Procedure:

1ml of filtrate as prepared in F (b) is transferred to a 50ml of volumetric flask then 10ml of ammonium molybdate solution is added to it. Little amount of water is added to the above content and then 1ml of stannous chloride is added to it. The volume is made up to 50ml mark by adding distilled water and then the content is shaken well to complete the formation of blue colour. Then the intensity of colour develop is measured in a previously calibrated colorimeter to find the concentration of phosphorous in the test samples

(iii) Calculation:

The concentration of phosphorous in the sample extract is obtained by comparing its absorbance/Transmittance reading with the standard curve. The result are expressed as % of P_2O_5

$$\% \text{Phosphorous (as } P_2O_5) = \frac{SR \times V_1 \times V_3 \times 2.29}{W \times V_2 \times 10000}$$

Where, SR is the sample reading from standard curve as P (mg/kg)

V_1 is the original volume of the extractant (in ml)

V_2 is the volume of extractant taken for the test (in ml)

V_3 is the final volume of the extractant (in ml), and

W is the weight of the test sample taken (in gram)

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(d) Determination of Potassium:

(i) Principle: The determination of Potassium is based on flame emission spectroscopy by using a flame photometer.



Fig-3a: A Corning Flame Photometer

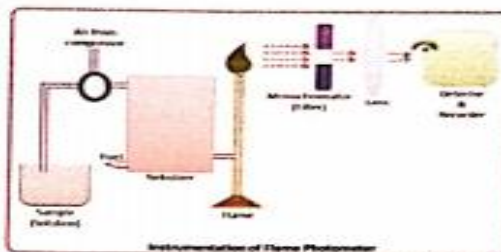


Fig-3b: Schematic diagram of a Flame photometer

The absorption and emission of radiant energy by atoms provide strong analytic determination, qualitatively and quantitatively. In flame emission spectroscopy, the concentration of the analyte present in sample is proportional to the intensity of the emitted radiation.

Let us consider a simplified energy level, where E_0 represent the ground state in which the electrons of an atom are at their lowest energy level and E_1, E_2, E_3 etc represent higher energy levels.

Transitions between two quantized energy levels, say from E_0 to E_1 , correspond to the absorption of radiant energy, and the amount of the energy absorbed (ΔE) is measured by Borh's equation

$$\Delta E = E_1 - E_0 = h\nu, \text{ Where } h = \text{plank's constant and } \nu = \text{frequency of radiation}$$

Clearly, the transition from E_0 to E_1 corresponds to the emission of radiation of frequency ν .

The intensity of the light emitted could be described by the Scheibe-Lomakin equation:

$$I = k \times c^n$$

Where:

I = Intensity of emitted light

C = the concentration of the element

k = constant of proportionality

$n \sim 1$ (at the linear part of the calibration curve)

Then,

$$I = k \times c$$

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That is the intensity of emitted light is directly related to the concentration of the sample.

(ii) Procedure:

The filtrate as obtained in F(b) is subjected to flame photometer for determination of potassium after calibrating the same with standard Potassium solution.

(iii) Calculation:

The concentration of potassium in sample extract is obtained by comparing the flame photometer reading with the standard curve. The results are express as % K_2O

$$\% \text{Potassium (as } K_2O) = \frac{SR \times V_1 \times V_3 \times 1.2}{W \times V_2 \times 10000}$$

Where, SR is the sample reading from standard curve as K (mg/kg)

V_1 is the original volume of the extractant (in ml)

V_2 is the volume of extractant taken for the test (in ml)

V_3 is the final volume of the extractant (in ml), and

W is the weight of the test sample taken (in gram)

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Result and discussion

The tests results are given in table-1:

Table-1

Sample identity	Moisture content* (%)	Organic matter content* (%)	pH (1:2.5)	Total nutrient content % (w/w)**				C N Ratio
				Nitrogen as N	Phosphorous as P ₂ O ₅	Potassium as K ₂ O	Organic carbon	
(1) Vermi compost	66.74	13.55	6.73	1.04	2.34	1.69	17.19	16.5:1
(2) Decomposed cattle manure	49.47	10.43	6.77	0.81	0.20	0.19	10.07	12.4:1
(3) Commercial Organic manure	3.35	58.82	7.44	0.11	0.08	0.05	0.13	1.2:1

*On fresh weight basis; ** on air dry weight basis

The pH of the samples (1) Vermicompost and (2) Decomposed cattle manure are found to be slightly acidic in nature, whereas the sample (3) Commercial organic manure is found to be alkaline in nature (Fig-4).

The organic matter content is found to be very high in Commercial organic manure sample; however it is moderate in case of Vermicompost & Decomposed cattle manure (Fig-5).

The organic carbon level is found to be high in Vermicompost and Decomposed cattle manure samples, however it is very poor in Commercial organic manure sample (Fig-5).

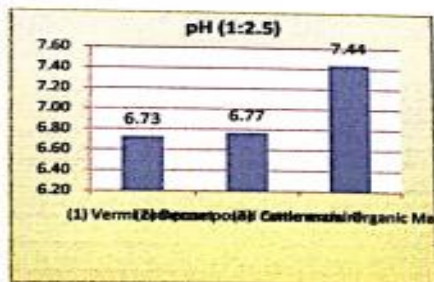


Fig-4

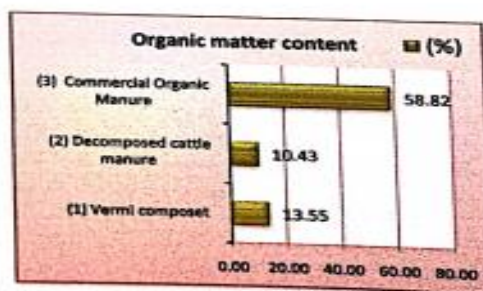


Fig-5

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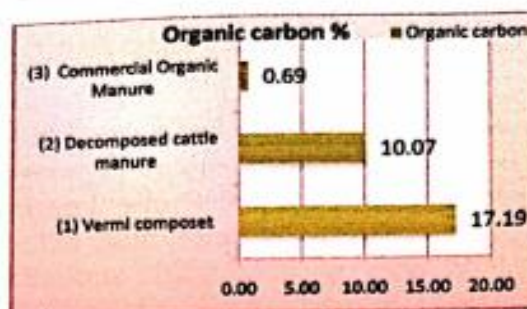


Fig-6

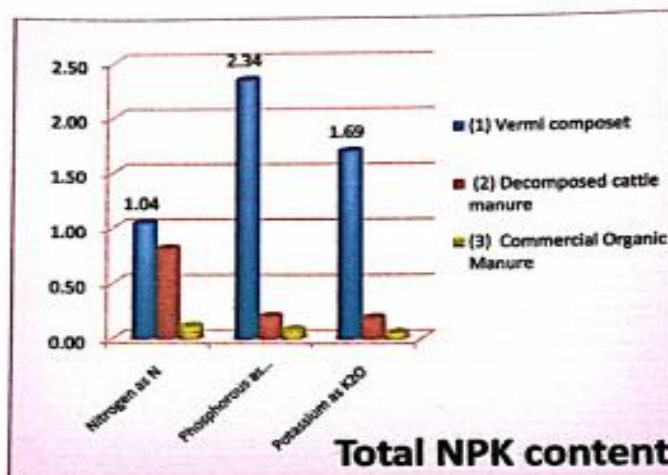


Fig-7

The sum total of NPK content is highest in Vermicompost sample followed by Decomposed cattle manure, while Commercial organic manure sample contains very poor NPK (Fig-7).

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Summery and conclusion

From the test results it is observed that the 'Vermicompost' sample under test contains highest amount of major nutrients (5.1% NPK) amongst the three manure samples analysed, which has satisfied the tolerance limit of Organic fertilizer (which is, the sum total of nitrogen, phosphorus and potassium nutrients shall not be less than 2.5% in case of Vermicompost) as per "Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, 1985". However the quality of organic manure produced is dependent upon the inputs and method employed.

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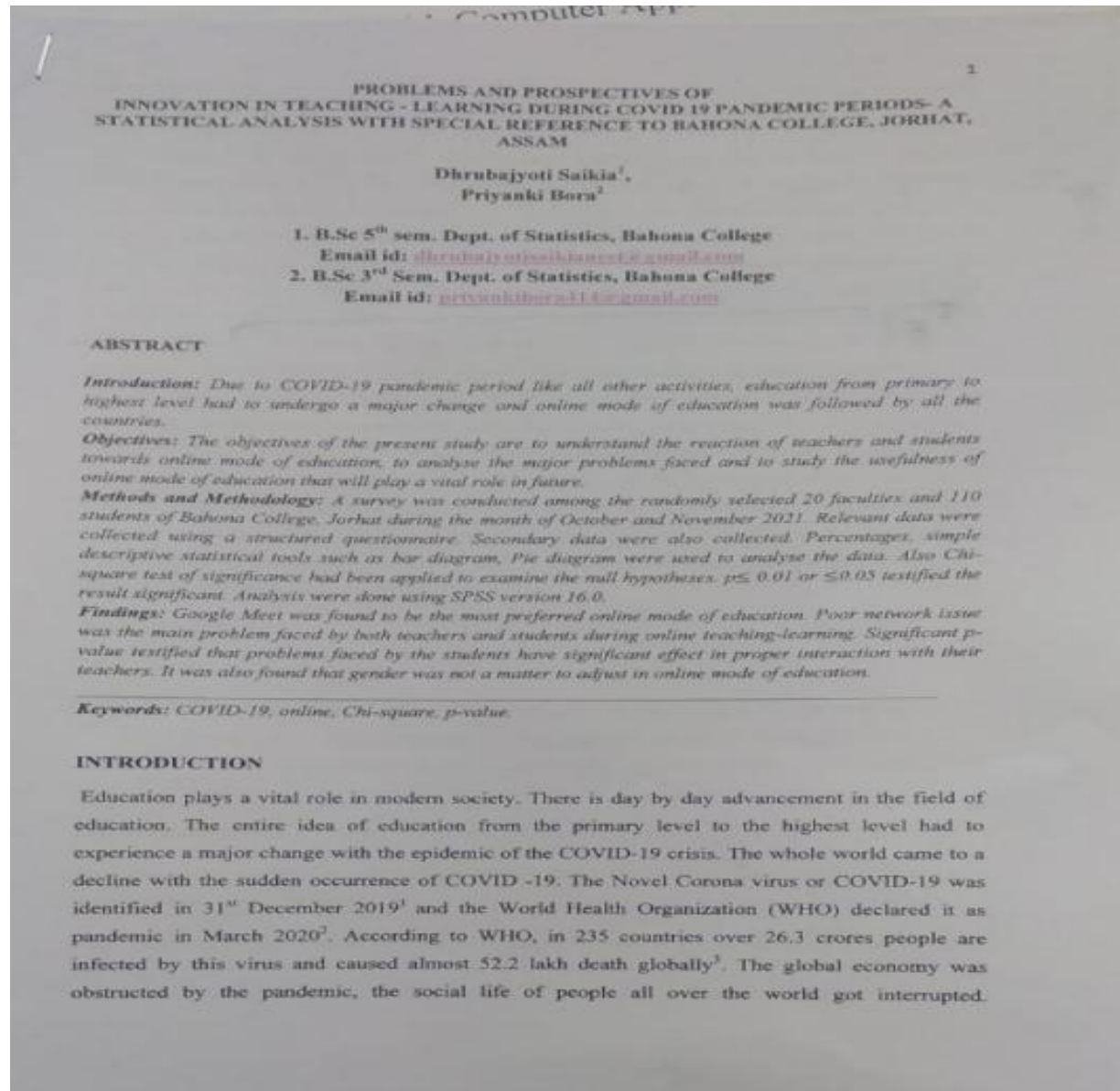


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Advanced Learners are Encouraged towards Finding New Avenues of Learning such as Undertaking Research.

International Labour Organization estimated that almost 2.7 billion workers will get affected by this pandemic⁴. Over 40 million people lost their jobs in India itself due to COVID-19⁵.

With the spread of COVID-19, educational institutions all over the world were closed down. The only way to stop the spread of this deadly virus was to maintain social distancing. India went under complete lockdown from 25th of March⁶. All sorts of educational institutions, offices, shops, transports and communication facilities were closed. It was thought that children were more likely to be affected by the virus. Thus almost all the educational institutions moved towards online mode of delivering education to the students in different parts of the world. In a country like India where classroom teaching is followed everywhere, the transformation to online mode of teaching was harsh. But this was the only alternative. The closure of educational institutions all over the world put the future of the young students at stake. To deal with this problem online mode of education was followed by all the countries. This was not new for technologically developed European countries. But in India students faced a lot of trouble as they suddenly faced a situation which was unusual. Even the teachers had a harsh time to deal with this alteration. Network connectivity was one of the major problems faced by the teachers as well as students. Keeping these points of view, this paper is a humble attempt to understand the impact of online education on the students of Bahoma College, Jorhat. Thus this study will help in understanding the problems and concerns of the students during online learning and will provide new way to cope with these problems.

OBJECTIVES

The objectives of this study are-

- i) To understand the reaction of teachers and students to the online mode of education
- ii) To analyse the major problems of online education among the students
- iii) To study the usefulness of online mode of education that will play an important role in future.

HYPOTHESES

H₀₁: The problems faced by the students are not obstructive in smooth interaction with teachers during online mode of education.

H₀₂: There is no association between the genders in adjusting with the new mode of online learning.

Papers Presented by Advanced Learners from Dept of Statistics [Page 2]


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তাং- ৫/০৮/২০২১

জাননী

ইয়াৰ দ্বাৰাই বাহনা মহাবিদ্যালয়ৰ তৃতীয় ষাণ্মাসিকৰ ছাত্ৰ-ছাত্ৰীসকলক অৱগত কৰা হয় যে, ডিব্ৰুগড় বিশ্ববিদ্যালয়ৰ ২৮/০৭/২০২১ তাৰিখত প্ৰকাশিত জাননী অনুসৰি আৰু ৩১/০৭/২০২১ তাৰিখত প্ৰকাশিত সময়সূচী অনুসৰি CBCS পাঠ্যক্ৰমৰ তৃতীয় ষাণ্মাসিকৰ পৰীক্ষাসমূহ অনুষ্ঠিত কৰা হ'ব। ছাত্ৰ-ছাত্ৰীসকলক ২৮/০৭/২০২১ তাৰিখৰ জাননীত প্ৰকাশিত নীতি নিয়মসমূহ পালন কৰি পৰীক্ষাত অবতীৰ্ণ হ'বলৈ আহ্বান জনোৱা হ'ল। ছাত্ৰ-ছাত্ৰীসকলৰ সুবিধাৰ্থে বিশ্ববিদ্যালয়ৰ নীতি নিয়মসমূহৰ লগতে মহাবিদ্যালয়ে প্ৰস্তুত কৰা নিয়মসমূহৰ কিছু তলত উল্লেখ কৰা হ'ল।

১) তৃতীয় ষাণ্মাসিকৰ পৰীক্ষাসমূহ Online আৰু Offline মিশ্ৰিত (blended) ৰূপত অনুষ্ঠিত কৰা হ'ব। এই পৰীক্ষা Open Book পদ্ধতিৰে অনুষ্ঠিত নহয়।

২) পৰীক্ষাৰ্থীসকলে ১০ আগষ্টৰ ভিতৰত Online নে Offline modeত পৰীক্ষাত অবতীৰ্ণ হ'ব তলৰ Google Form পূৰণ কৰি জনাব লাগিব। কোনো পৰীক্ষাৰ্থীয়ে সময়ত Google Form পূৰণ নকৰিলে Online modeত পৰীক্ষাত অবতীৰ্ণ হ'ব বুলি ধৰি লোৱা হ'ব। Google Form: <https://forms.gle/EXihHMRVxVsm7TAE7>



Bilingual Examination Notice [Page 1]


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৩) পৰীক্ষাৰ প্ৰশ্নকাকত Softcopy ৰূপত ডিব্ৰুগড় বিশ্ববিদ্যালয়ে প্ৰদান কৰিব আৰু সেই কাকতসমূহ মহাবিদ্যালয়ে Google Classroom আৰু WhatsAppৰ মাধ্যমেৰে পৰীক্ষাৰ্থীসকলক প্ৰদান কৰিব।

৪) প্ৰশ্নকাকত লাভ আৰু উত্তৰবহী জমাৰ বাবে Google Classroom আৰু WhatsAppৰ লিংক তলত উল্লেখ আছে।

Google Classroom code: tqlbsfh



WhatsApp Link: <https://chat.whatsapp.com/E57JRp0nKUq7h3KNbtZcU3>



উত্তৰবহীসমূহ তলৰ email id লৈও mail কৰিব পাৰিবঃ

E-mail id: exams.third@bahonacollege.edu.in

৫) পৰীক্ষাৰ্থীসকলে প্ৰশ্নকাকতত উল্লেখিত মুঠ নম্বৰৰ ৫০% ৰ উত্তৰ কৰিলেই হ'ব।

৬) Offline ৰূপত পৰীক্ষাত অবতীৰ্ণ হ'বলৈ ইচ্ছা কৰা পৰীক্ষাৰ্থীসকলে অসম চৰকাৰৰ দ্বাৰা প্ৰকাশিত ক'ভিডৰ আটাইবোৰ নীতি নিয়ম পালন কৰি পৰীক্ষাত অবতীৰ্ণ হ'ব লাগিব।

৭) Online modeত পৰীক্ষাত অবতীৰ্ণ হোৱা সকলে A4 কাগজত উত্তৰসমূহ লিখিব লাগিব। উত্তৰবহীৰ আৰ্হি তলত গাঁথি দিয়া হৈছে। পৰীক্ষাৰ্থীসকলে এই আৰ্হিত উকা উত্তৰবহীসমূহ print কৰি অথবা হাতেৰে লিখি আগতিয়াকৈ সাজু কৰি ল'ব পাৰিব। উত্তৰ লিখিবলৈ Blue অথবা Black Ball Pen ব্যৱহাৰ কৰিব লাগিব।

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Sessional Examination, 3rd Semester, 2016
Economics (core)

Paper: 3.01 (Public Economics)

Marks:40

Time:1^{1/2}hours

1. Answer the following – 1 × 4 = 4
তলৰ প্ৰশ্নবোৰৰ উত্তৰ লিখা -
- (a) Mention one limitation of Indian Tax System.
ভাৰতীয় কৰ ব্যৱস্থাৰ এটা অসুবিধা লিখা।
- (b) Mention one difference between public finance and Private finance.
চৰকাৰী বিত্ত আৰু ব্যক্তিগত বিত্তৰ এটা পাৰ্থক্য উল্লেখ কৰা।
- (c) Mention two sources of public revenue.
চৰকাৰী বাজহৰ দুটা উৎস উল্লেখ কৰা।
- (d) Write two objective of public expenditure.
চৰকাৰী ব্যয়ৰ দুটা উদ্দেশ্য লিখা।
2. Answer any two of the following – 3 × 12 = 36
তলৰ যিকোনো তিনিটা প্ৰশ্নৰ উত্তৰ দিয়া -
- (a) Mention the main features of Indian Tax System. Give an idea of the measures adopted in the present decade to improve the tax system. 8+4=12
ভাৰতীয় কৰ ব্যৱস্থাৰ প্ৰধান বৈশিষ্ট্যবোৰ আলোচনা কৰা। ভাৰতীয় কৰ ব্যৱস্থা উন্নীতকৰণৰ বাবে লোৱা ব্যৱস্থামূলী আলোচনা কৰা।
- (b) Define Public finance. Discuss the scope and subject matter of public finance. 12
চৰকাৰী বিত্তৰ সংজ্ঞা দিয়া। চৰকাৰী বিত্ত বিজ্ঞানৰ পৰিসৰ আৰু বিষয়বস্তু চমুকৈ আলোচনা কৰা।
- (c) Explain with diagram the theory of Maximum Social Advantage. What are the objective test of measuring maximum social advantage. 12
সৰ্বাধিক সামাজিক সুবিধাৰ তত্ত্বটো চিত্ৰসহ ব্যাখ্যা কৰা। সৰ্বাধিক সামাজিক সুবিধাৰ পৰিমাপ কৰাৰ উপায়বোৰ কি কি?
- (d) Discuss the importance of public expenditure in developing countries. 12
উন্নয়নশীল অৰ্থনীতিত চৰকাৰী ব্যয়ৰ গুৰুত্ব ব্যাখ্যা কৰা।


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Bilingual Question Papers of In-House Sessional Examinations [Page 1]


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Sessional Examination, 1st Semester, 2016
Economics (core)
Paper: 1.01 (Micro Economics)

Marks:40

Time:1^{1/2} hours

1×4=4

1. Answer the following questions:

তলৰ প্ৰশ্নবোৰৰ উত্তৰ দিয়া -

(a) Write one importance of the law of demand.

চাহিদা বিধিৰ এটা গুৰুত্ব লিখা।

(b) Write the conditions of equilibrium of the firm.

উৎপাদন প্রতিষ্ঠানৰ ভাৰসাম্যতাৰ স্বৰ্ত লিখা।

(c) What is marginal product?

প্ৰান্তিক উৎপাদন কি?

(d) The shape of total fixed cost is -

i. Horizontal ii. Vertical iii. Downward sloping iv. None of these

মুঠ স্থিৰ ব্যয় বেখাৰ আকৃতি -

ক. আনুভূমিক খ. উলম্ব গ. নিম্নমুখী ঘ. ওপৰৰ এটাও নহয়।

2. Answer any three of the following questions:

3×12=36

তলৰ যিকোনো তিনিটা প্ৰশ্নৰ উত্তৰ লিখা -

(a) Define microeconomics. Write advantage and limitations of microeconomic analysis.

ব্যক্তিগত অৰ্থবিজ্ঞানৰ সংজ্ঞা লিখা। ব্যক্তিগত অৰ্থবিজ্ঞানৰ সুবিধা আৰু অসুবিধাসমূহ লিখা। 12

(b) What is market equilibrium? Explain the effect of change in demand and supply on market equilibrium.

2+10=12

বজাৰ ভাৰসাম্য বুলিলে কি বুজা? বজাৰ ভাৰসাম্যতাৰ ওপৰত চাহিদা আৰু যোগানৰ পৰিৱৰ্তনৰ প্ৰভাৱ ব্যাখ্যা কৰা।

(c) Write a short note on short run average cost curve. Explain why the short run average cost curve is U-shaped?

4+8=12

হ্ৰস্বকালত গড়ব্যয় বেখাৰ এটা চমুটোকা লিখা। হ্ৰস্বকালত গড়ব্যয় বেখাৰ কিয় U- আকৃতিৰ হয়?

(d) Mention the characteristic of perfect competition. How equilibrium price and output are determined under perfect competition?

12

পূৰ্ণ প্ৰতিযোগিতাৰ বজাৰৰ বৈশিষ্ট্যসমূহ উল্লেখ কৰা। পূৰ্ণ প্ৰতিযোগিতামূলক বজাৰত ভাৰসাম্য দৰ আৰু উৎপাদনৰ পৰিমাণ কেনেদৰে নিৰ্দ্ধাৰণ হয় ব্যাখ্যা কৰা।

(e) Discuss critically Ricardo's theory of rent.

ৰিকাৰ্ডৰ খাজনা তত্ত্বটো সমালোচনাত্মকভাৱে আলোচনা কৰা।

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Bilingual Question Papers of In-House Sessional Examinations [Page 2]

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Amar Alosona, Episode 4: Puppetry Tradition of India
বাহনা মহাবিদ্যালয়ৰ
বিশেষ অনলাইন অনুষ্ঠান
আমাৰ আলোচনা

SEASON 01, EPISODE 04
Date: 22nd July, 2020
Time: 7.00 pm to 8.30 pm
আলোচনাৰ বিষয়ঃ
ভাৰতৰ পুতলা নাট সংস্কৃতিঃ
প্ৰদৰ্শন আৰু পৰ্যালোচনা
(Puppetry Traditions of India)

In collaboration with
Manshow,
Bahona College

বিনীতা শৰ্মা
প্ৰতিভাংশু দাস
ড° পঙ্কজ বৰা
বিক্ৰম বৰা

নিমন্ত্ৰিত বক্তাঃ বিনীতা শৰ্মা, অভিনেত্ৰী তথা গৱেষিকা।
নিমন্ত্ৰিত আলোচকঃ প্ৰতিভাংশু দাস, সংগীত নাটক একাডেমী বঁটা প্ৰাপক বিশিষ্ট শিল্পী, ত্ৰিপুৰা।
সঞ্চালকঃ ড° পঙ্কজ বৰা, বাহনা মহাবিদ্যালয়।
খণ্ড সঞ্চালকঃ বিক্ৰম বৰা, বাহনা মহাবিদ্যালয়।

Link for Laptop user:
<https://meet.google.com/qsh-uvga-zxi>

Code for Google Meet app users:
qsh-uvga-zxi

Supported by:
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0:00 / 1:16:32
Scroll for details

Bilingual Episode of Amar Alosona, an Online Programme for Enrichment of Students [Page 1]

Link: <https://www.youtube.com/watch?v=bfKBigMX920&t=2s>


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Amar Alosona, Episode 4: Puppetry Tradition of India

126 views · Jul 25, 2020

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Bilingual Episode of Amar Alosona, an Online Programme for Enrichment of Students [Page 2]

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Library of Dept of Assamese [Page 1]


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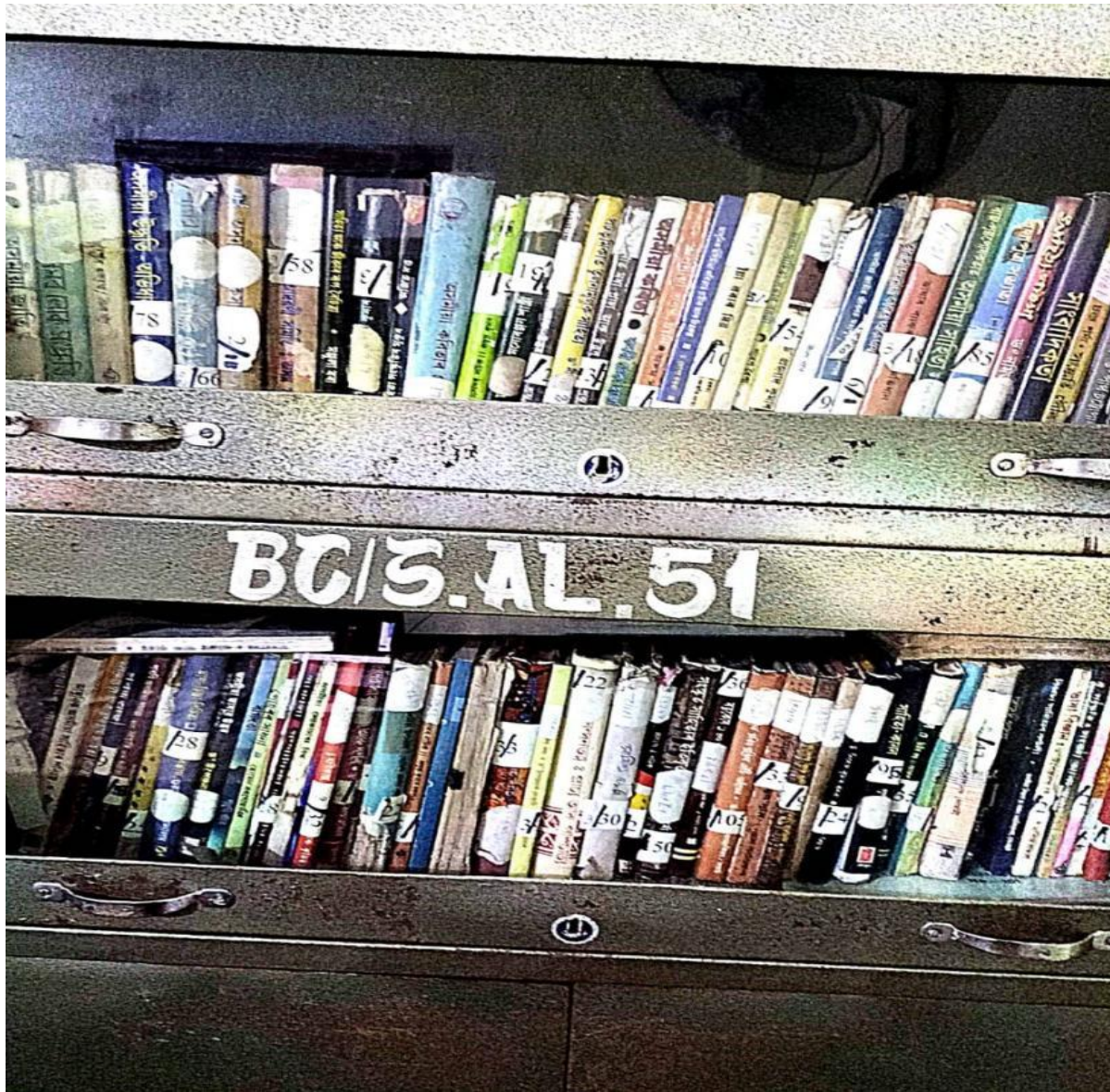



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Library of Dept of Chemistry [Page 1]


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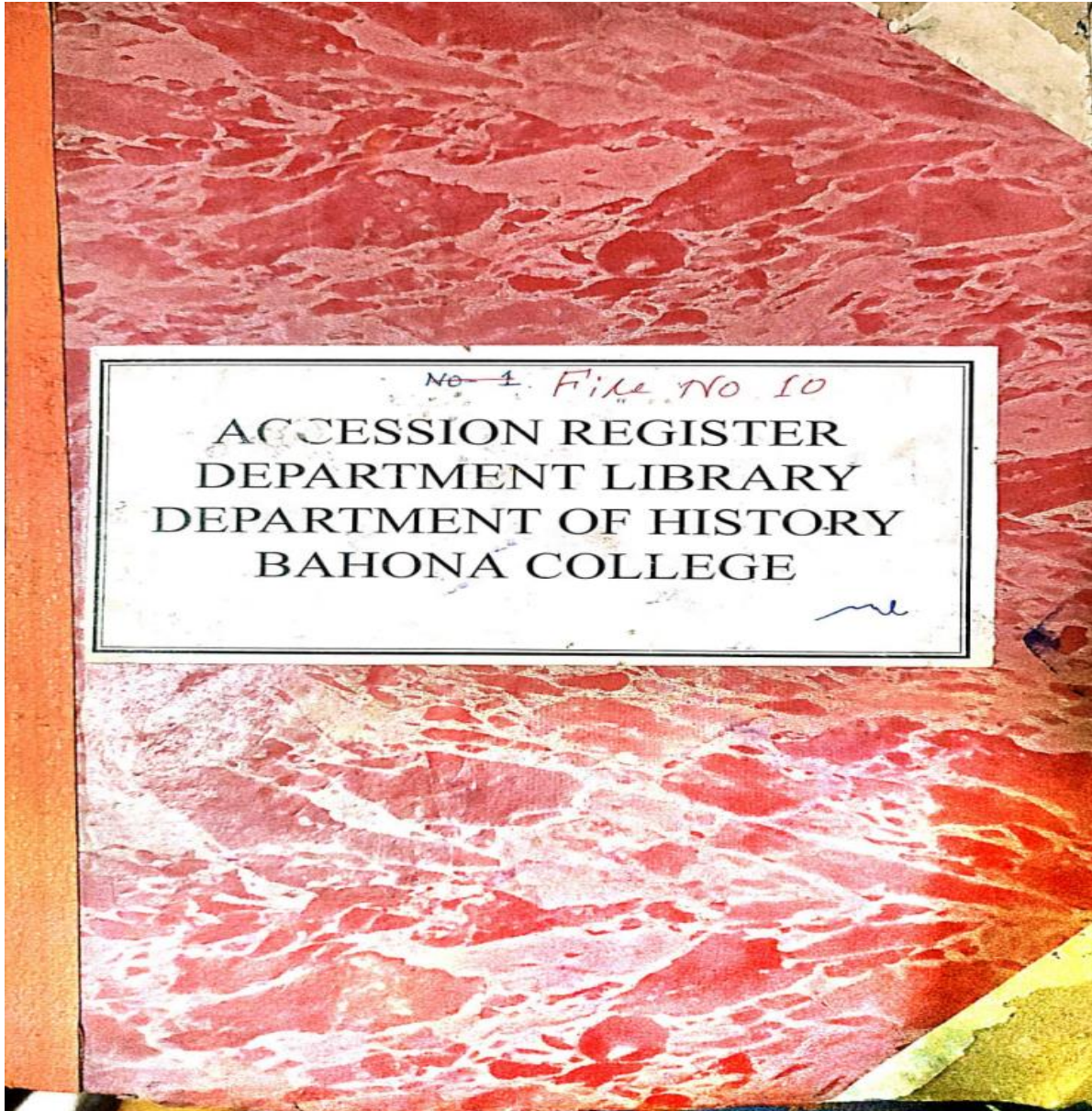


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2	02	11438	The Cambridge History of India	
3	03	15772	ইতিহাসৰ বুৰঞ্জী - (১৮১৫-১৯৪৭) Vol. 2.	
4	04	15770	Do	
5	05	19452	A History of India - Vol. I.	
6	06	13853	দেশৰ দেশৰ বুৰঞ্জী -	
7	07	4509	England Since 1688	
8	08	19795	ইংলেণ্ডৰ বুৰঞ্জী - (১৬৮৮-১৮২০)	
9	09	15757	দক্ষিণ আৰু উত্তৰ আমেৰিকা দেশৰ ইতিহাসে আৰু সংস্কৃতি	
10	10	17397	ইতিহাসৰ বুৰঞ্জী - (১৫০০-১৮১৫)	
11	11	3822	আৰু বুৰঞ্জী -	
12	12	18974	আৰু ইতিহাসিক আৰু সংস্কৃতিক বুৰঞ্জী -	
13	13	7874	আৰু বুৰঞ্জী (চাৰ্লস ম্যাক)	
14	14	15062	আৰু বুৰঞ্জী - (প্ৰাচীন যুগ -)	
15	15	13473	Alan Buraselain and His Line	
16	16	5839	History of Greece	
17	17	19453	Modern Europe (1757-1870)	
18	18	18378	আৰু বুৰঞ্জী -	
19	19	17400	আৰু বুৰঞ্জী - (১৮৭১-১৯১৪)	
20	20	19314	International Relations Since 1919	
21	21	11742	Indian History	
22	22	10080	Europe in the 19th & 20th Centuries	
23	23	17380	An advanced History of India	
24	24	19917	International relations (1913 to 1945)	
25	25	19916	Do (1945-)	
26	26	19920	Hindu Colonies in the Far East.	
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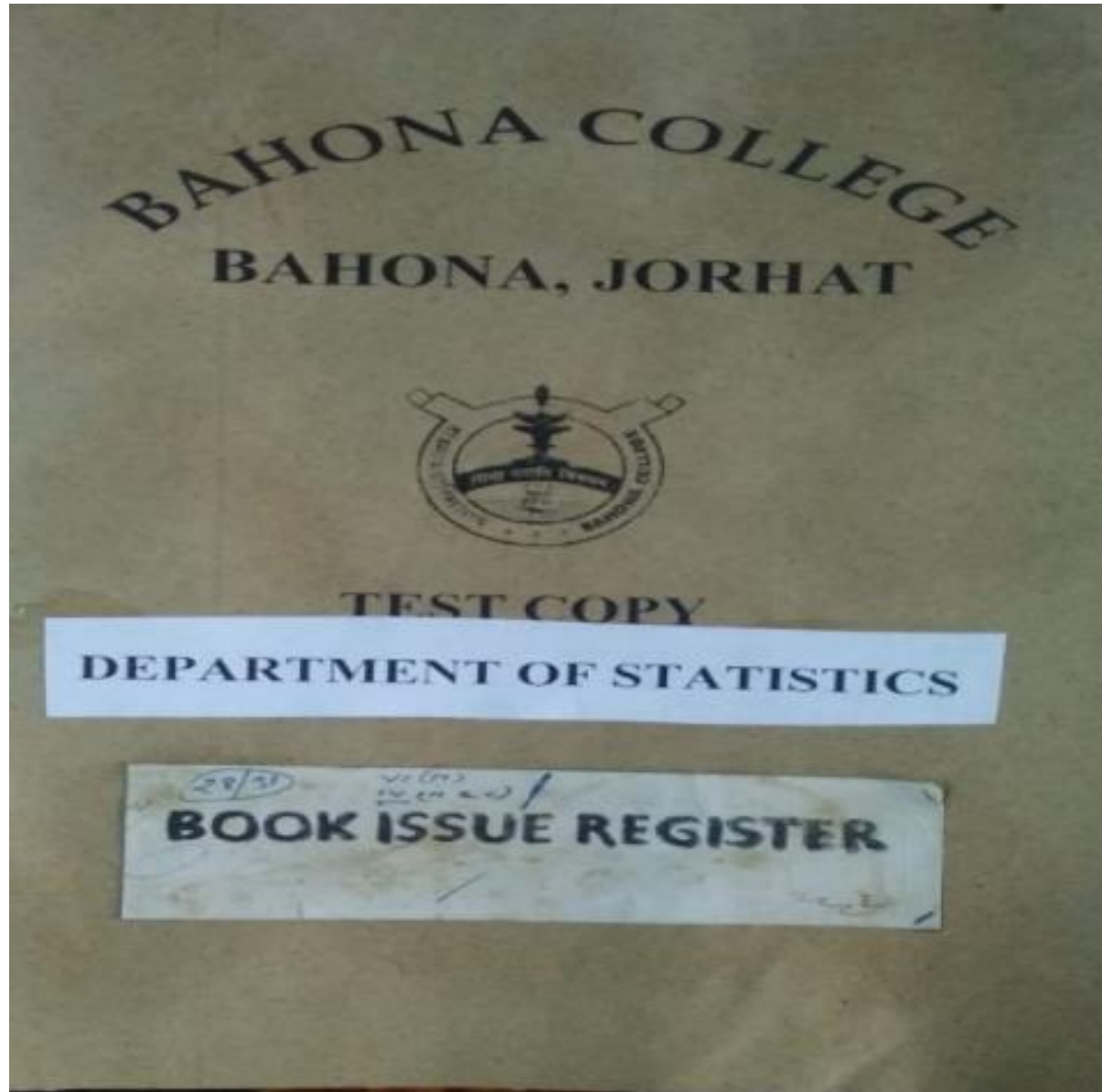



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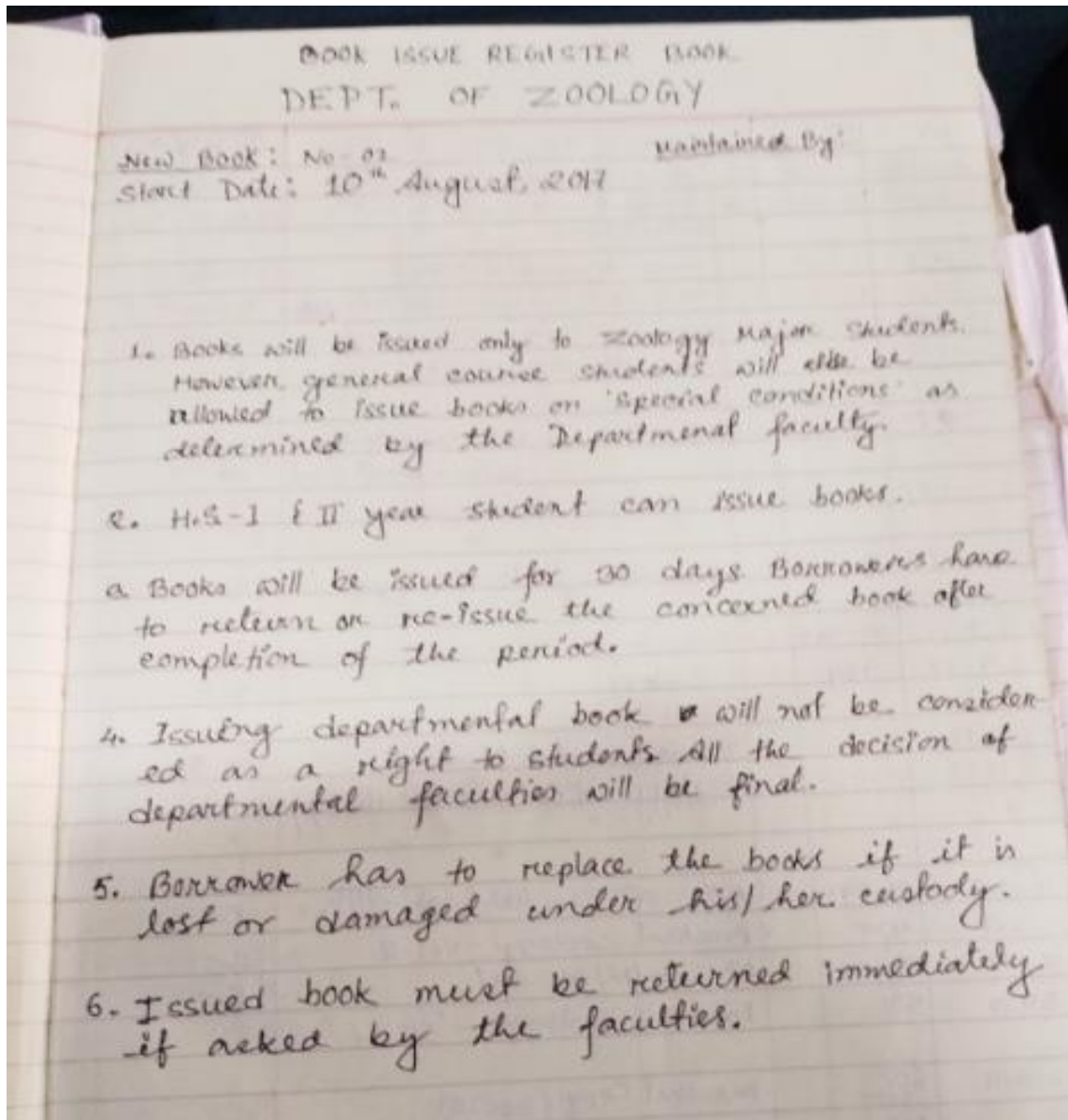


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Organized by
Department of Botany, Bahona College, Jorhat, Assam
In Collaboration with
Department of Botany, Jorhat Kendriya Mahavidyalaya, Jorhat
From 14.06.2021-19.06.2021

FEP, Day-05
Time: 10.00 AM
Date: 18.06.2021

Topic:
Bioinformatics
for
Beginners

Meeting Platform:

Meeting Link:
<https://meet.google.com/rmth-wxcs-yhc>

RESOURCE PERSON:
Dr. Sangeeta Das
Assistant Professor
Department of Botany
Bahona College
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Priyanki Dutta samanand thakur
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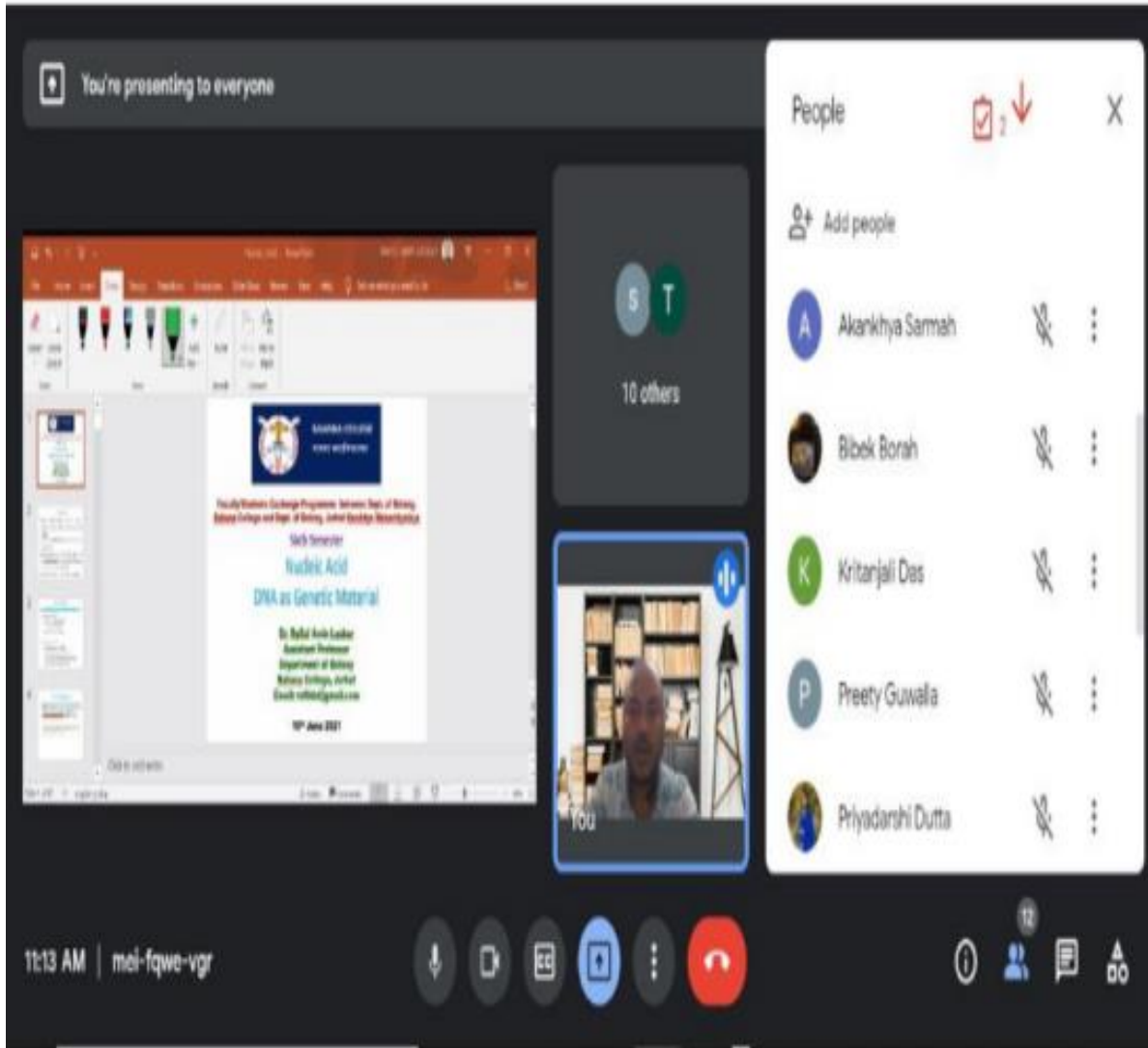



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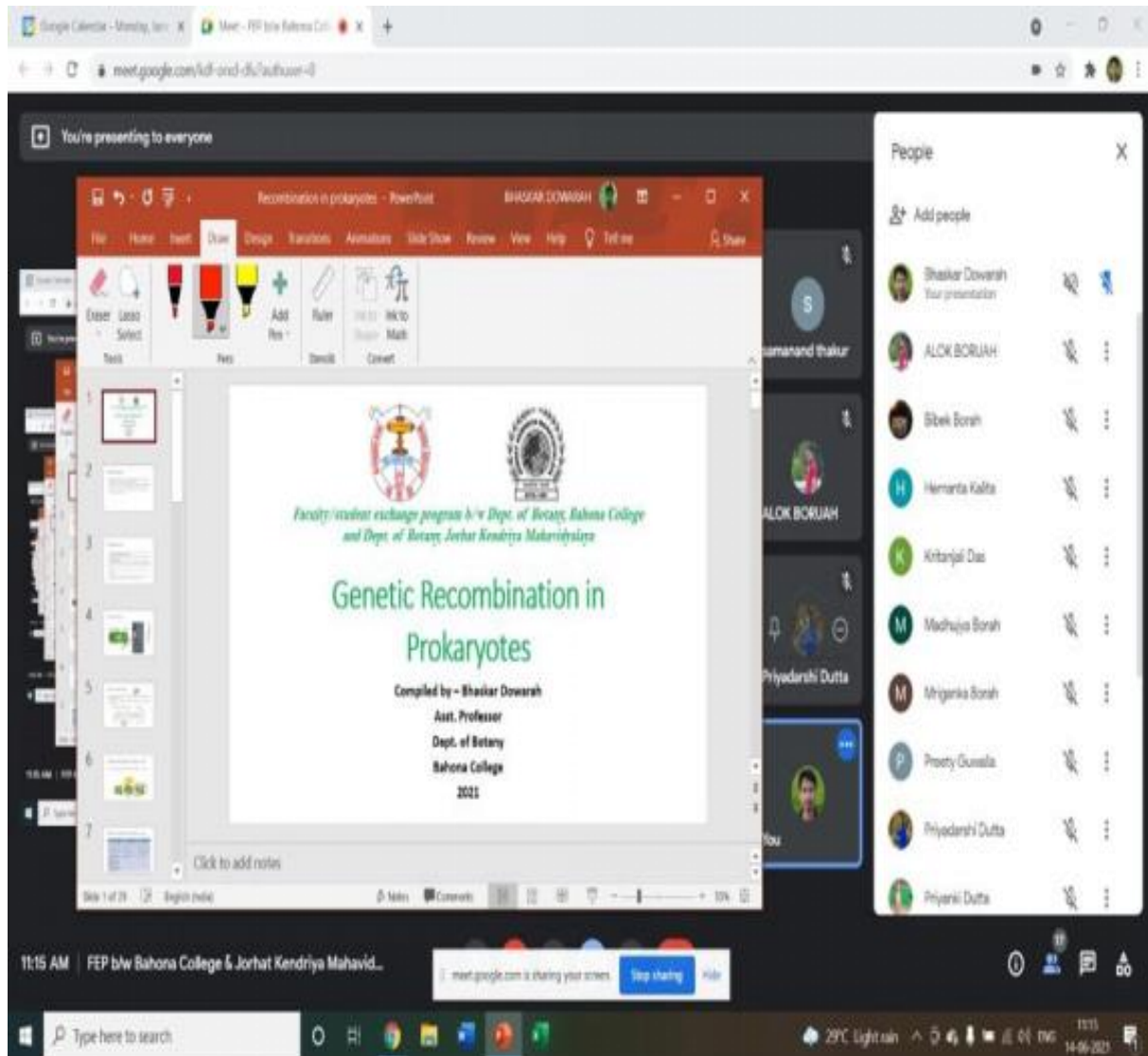



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Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



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Affiliated to Dibrugarh University

Faculty Exchange Programmes within and beyond the College Expose both Slow and Advanced Learners to a Wide Pool of Expertise



Online Faculty Exchange Programme between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 1]


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Online Faculty Exchange Programme between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 2]


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Online Faculty Exchange Programme between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 3]


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Online Faculty Exchange Programme between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 4]


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Faculty Exchange Programme between Dept of Physics, Bahona College and Dept of Mathematics and Computer Science, Bahona College


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Teacher Exchange Programmes: (Inter departmental) - 2021

Date:	Name of Teacher (Signature)	Dept. & SLL of Class section	No. of students:	Title of teaching
24/02/2021	Arjun Ch. Gogoi	Mathematics SEM-I (Hons)	16	Wave equation.
25/02/2021	Dr. Himansu Kalyan	Mathematics SEM-III (Hons)	18	Vibrations in a stretched string.
25/02/2021	Arjun Ch. Gogoi	Mathematics SEM-II (Hons)	12	Laplace Exp. & STH.
25/02/2021	Block K. Dutta (Phys)	Physics SEM-IV (Hons)	10	Calculus of Residues (theorem & application)
28/02/2021	do (Phys)	do do	12	Application
29/11/2021	Dr. Himansu Kalyan	Mathematics Sem III (H)	17	Vibration in a stretched string
13/12/2021	Jayanta Baruah	Physics (H) Sem I (H)	10	Introduction to C
14/12/2021	Jayanta Baruah	Physics Sem I (H)	12	Operator of C
20/12/2021	Jayanta Baruah	Physics Sem I (H)	12	Input output and feedback
22/12/2021	Block K. Dutta (Phys)	Physics Sem III (Hons)	11	Dependent Equations & Polynomials.
22/12/2021	Dr. Himansu Kalyan	Mathematics Sem II (Hons)	15	Wave equation and solutions
23/12/2021	Jayanta Baruah	Physics Sem I (Hons)	12	control system block and
13/12/2021	Block K. Dutta	Mathematics Sem III (H)	11	Generation function of Legendre's and Rodrigues formula

Record of Faculty Exchange Programmes maintained by Dept of Physics


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MAJULI COLLEGE

Department of Zoology Presents

Lecture Series for students

Resource Person



Dr. Gayatri Agni Borah
Associate Professor and HOD
Dept. of Zoology, Bahona College



- Theme-Parasitology(1st Part)
- Date-07.08.21
- Time-10am

- Theme-Parasitology(2nd Part)
- Date-09.08.21
- Time-10am



Coordinator
Dr. Pollobi Duara
HOD, Dept. of Zoology
Majuli College

Mode-Online
Platform-Google meet

Organised by
Department of Zoology
Majuli College

Online Faculty Exchange Programme between Dept of Zoology, Bahona College and Dept of Zoology, Majuli College


(Dr. P.K. Dutta)
Principal
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
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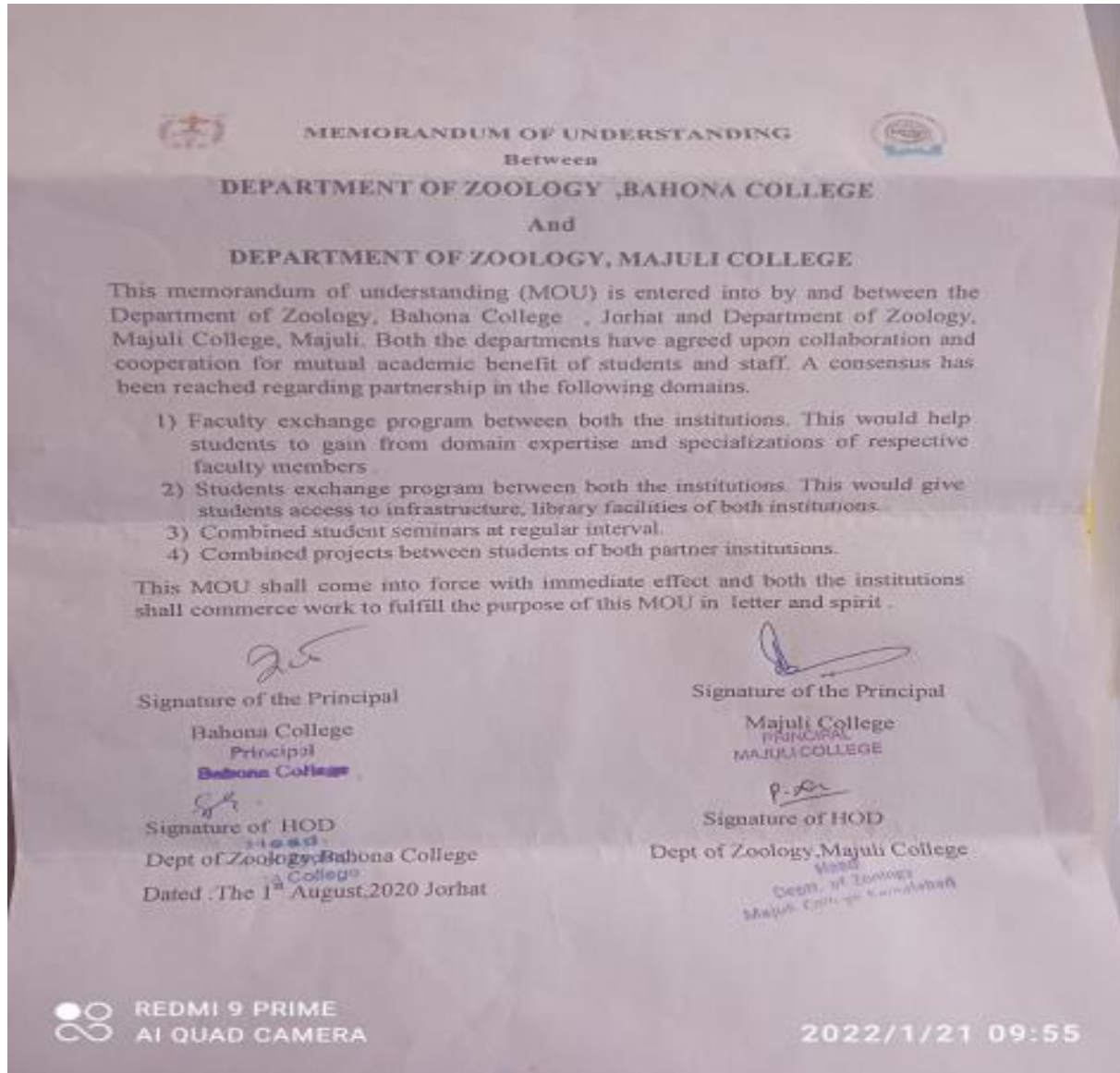


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Memorandum of Understanding for exchange of faculty between Dept of Zoology, Bahona College and Dept of Zoology, Majuli College


(Dr. P.K. Dutta)
Principal,
Bahona College

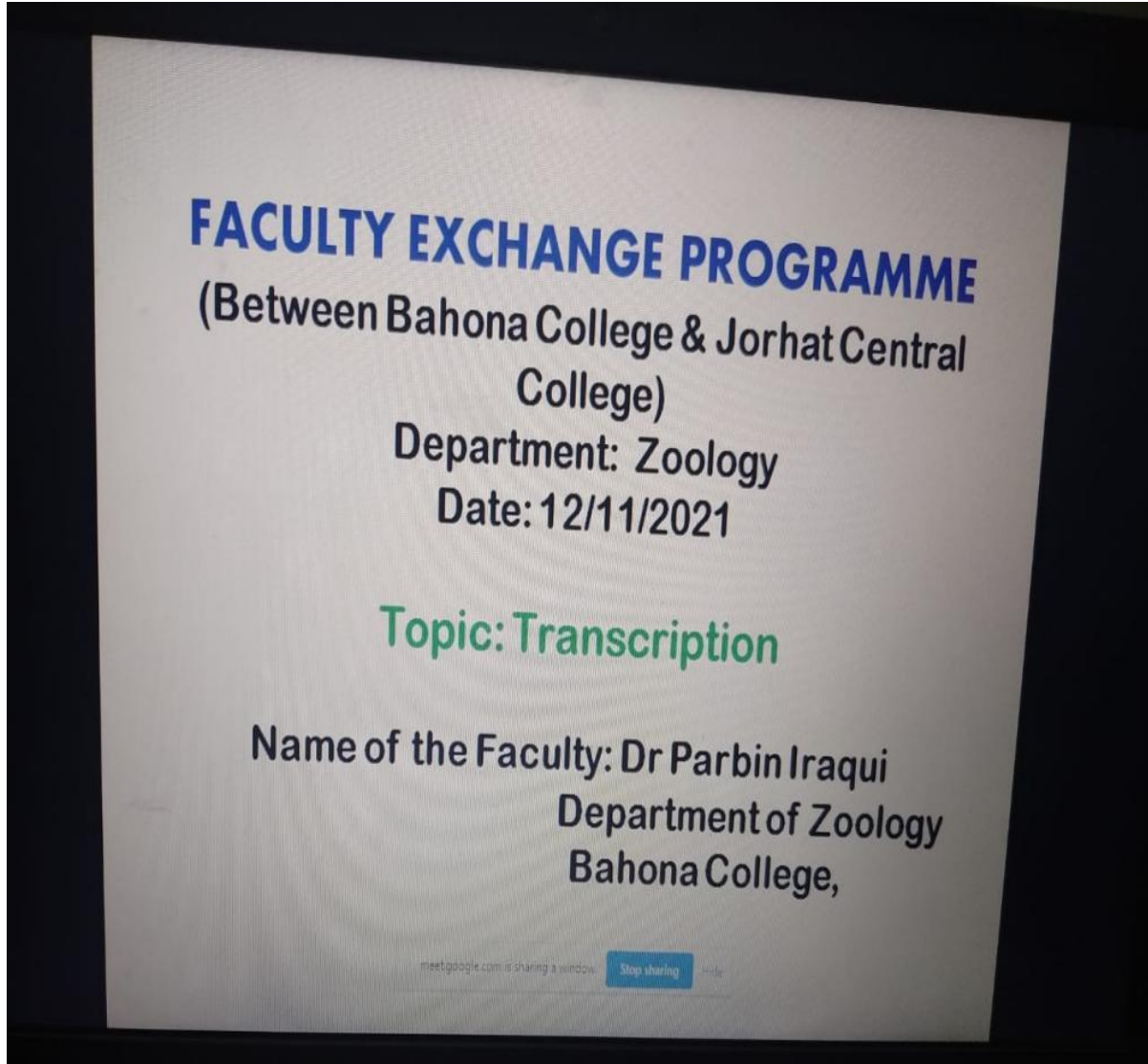



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Memorandum of Understanding for exchange of faculty between Dept of Zoology, Bahona College and Jorhat Kendriya Mahavidyalaya [Page 1]


(Dr. P.K. Dutta)
Principal,
Bahona College

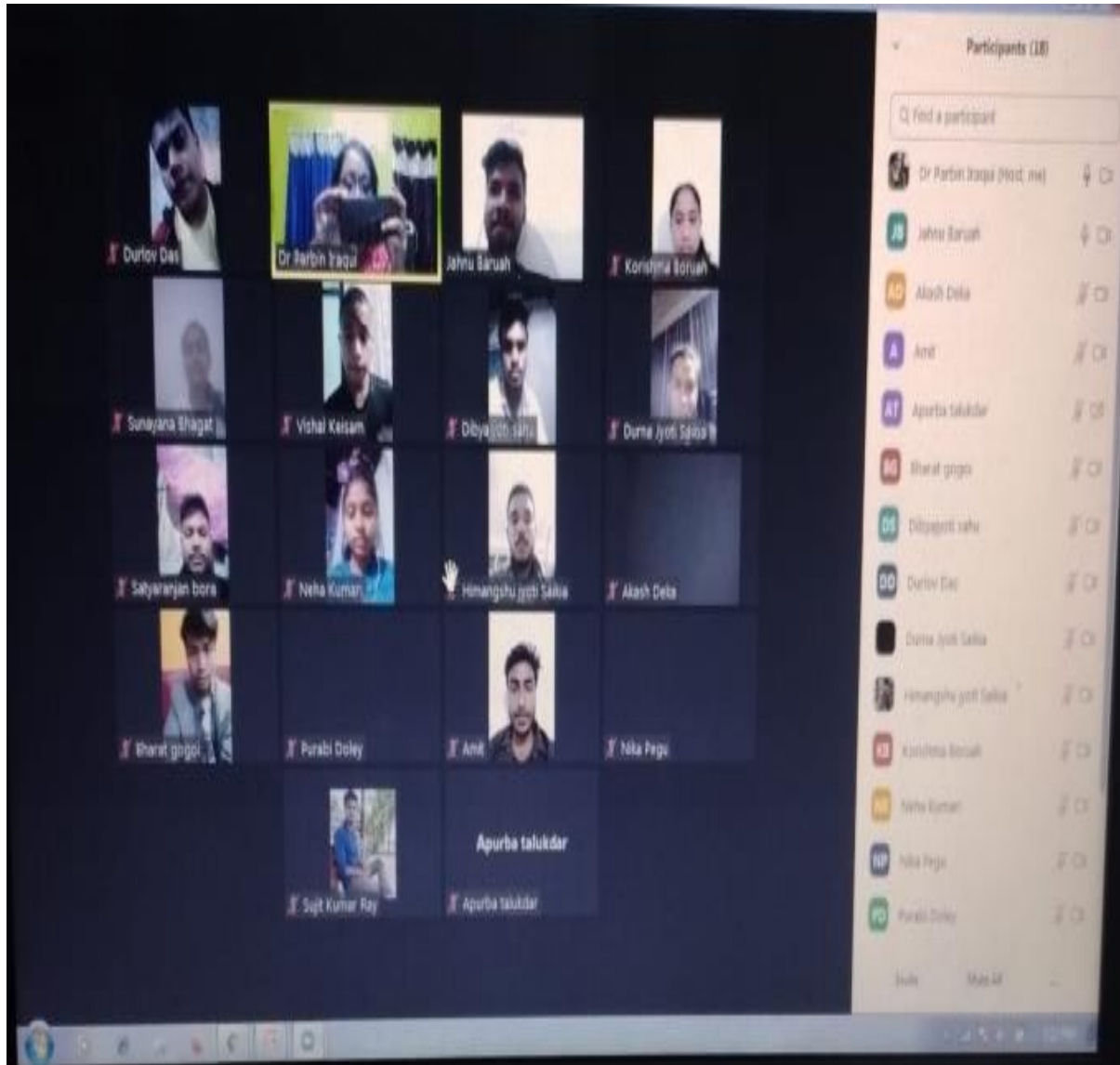



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Memorandum of Understanding for exchange of faculty between Dept of Zoology, Bahona College and Jorhat Kendriya Mahavidyalaya [Page 2]


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Bahona College

Department of Chemistry

1st Alumni Interaction Session



Resource Person:

Mr. Kankan Kishor Dutta
Alumnus, Dept. of Chemistry
Asst. Teacher; Bamunpukhuri High School, Teok



**A Discussion
On**

“Discovery of Four Asteroids”

Date: 21st June, 2021
Time: 7.00 – 8.00 pm
Platform: Google meet

Welcome Address:
Dr. Prasanna Kr. Dutta, Hon'ble Principal
Bahona College

Google meet link:
<https://meet.google.com/ztt-ybqh-nam>
Or insert ztt-ybqh-nam

Organized by:
Dept. of Chemistry, Bahona College
Coordinator: Dr. Parinita Borah, HoD

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 1]

[Link: <https://www.youtube.com/watch?v=MA9CSjMm6R>]


(Dr. P.K. Dutta)
Principal,
Bahona College

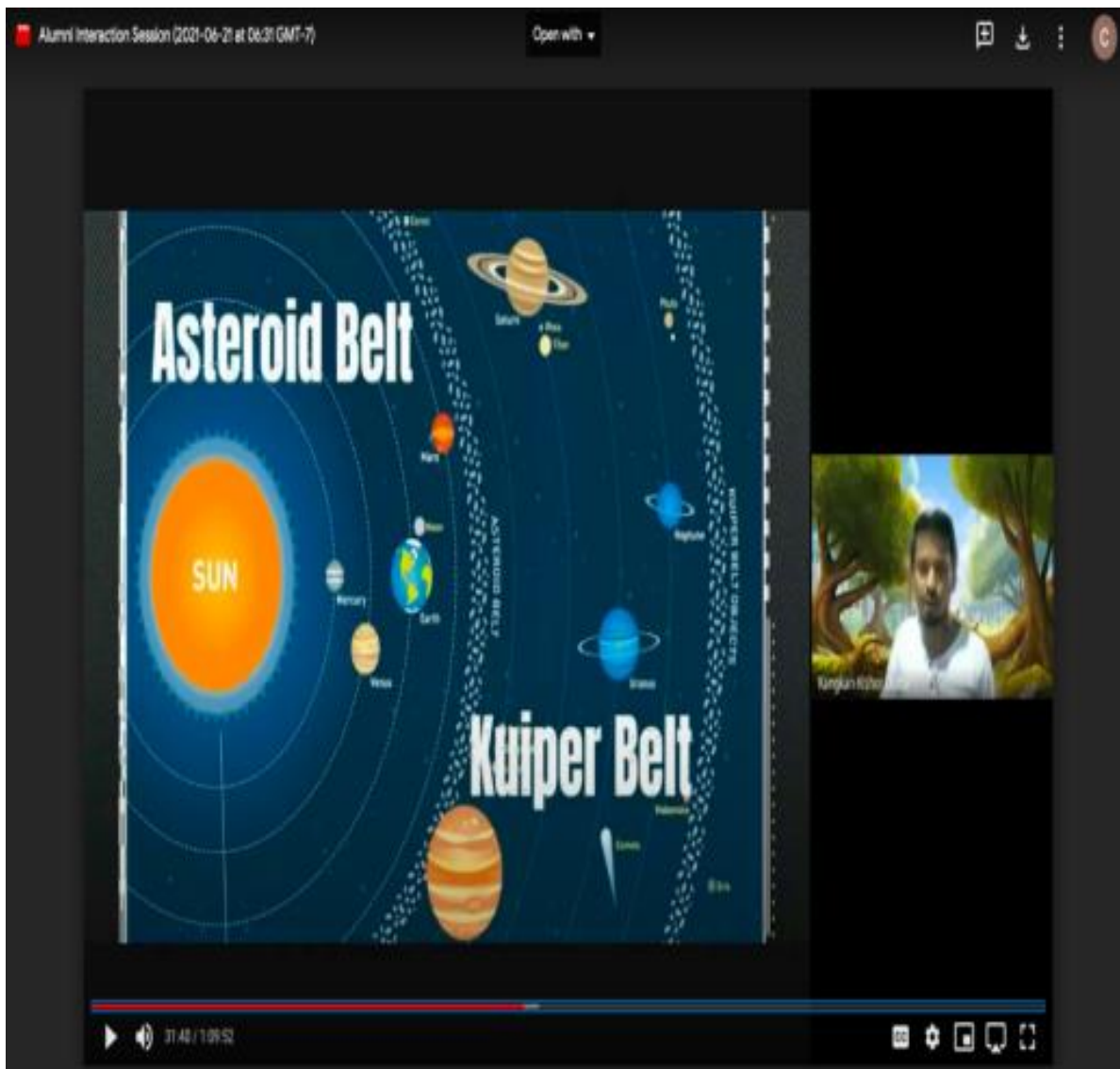



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Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 2]

[Link: <https://www.youtube.com/watch?v=MA9CSjMm6R>]


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Activities done by Department of Chemistry
Report on the '1st Alumni Interaction Session'

To promote collaboration between the current students of the department and the alumni of the department, a series of online interaction programmes were planned in the departmental meeting. The objective was to give a glimpse of the lives of the successful alumni, to the current students, so that the students can plan and anticipate their future endeavor. The 1st Online Alumni Interaction Programme was held using google meet on 21st June, 2021, 6.00 pm onwards. More than 60 participants participated in the programme. The program was coordinated by Dr. Parinita Borah, Head, Department of Chemistry with an inaugural speech by the hon'ble Principal of the college Dr. Prasanna K. Dutta. The invited talk of the session was delivered by Mr. Kankan Kishor Dutta, Teacher, Bamonpukhuri High School, TeoK, Jorhat. He was awarded 'National Best Teacher award' by Govt. of India due to achievement in the field of teaching-learning process. He talked about his work on recent discovery of four asteroids, in collaboration with NASA's citizen science programme. He shared his journey from the Bahona College till date and various hurdles came along his journey. He also shared various achievements in both national & state level as a teacher. The session was moderated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry. The session was followed by short interactive session with questions from the audiences. Finally, the programme was concluded with sincere vote of thanks by Miss. Prantika Bhattacharjee, Asst. Professor, Department of Chemistry.

Signature of the HoD:

Dr. Parinita Borah

Head

Department of Chemistry
Bahona College, Bahona

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 3]

(Dr. P.K. Dutta)
Principal,
Bahona College



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Bahona College
Department of Chemistry
2nd Alumni Interaction Session

Resource Person:
Mr. Gobin Bora
Alumnus, Dept. of Chemistry
Asst. Manager; Numaligarh Refinery Limited (NRL)



**An Interactive talk
On the
"Career Opportunities in Chemistry
& Allied Sciences"**

Google meet link:
<https://meet.google.com/qjh-utka-uua>
Or insert qjh-utka-uua

Welcome Address:
Dr. Prasanna Kr. Dutta, Hon'ble Principal
Bahona College

Organized by:
Dept. of Chemistry, Bahona College
Coordinator: Dr. Parinita Borah, HoD
Assoc. Coordinators: Dr. Champak Dutta
Miss Prantika Bhattacharjee

Date: 25th July, 2021
Time: 6.30 – 7.30 pm
Platform: Google meet

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 1]

[Link: https://www.youtube.com/watch?v=d_hM54e4YYI]


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Bahona College
Department of Chemistry
2nd Alumni Interaction Session

Resource Person:
Mr. Gobin Bora
Alumnus, Dept. of Chemistry
Asst. Manager, Numaligarh Refinery Limited (NRL)

An Interactive talk
On the
"Career Opportunities in Chemistry & Allied Sciences"

Google Meet Link:
<https://meet.google.com/ufz-uzaz>
<https://meet.google.com/ufz-uzaz>

Welcome Address:
Dr. Prasanna Kr. Dutta, Hon'ble Principal
Bahona College

Organized by:
Dept. of Chemistry, Bahona College
Coordinator: Dr. Parinita Borah, HoD
Assoc. Coordinators: Dr. Champak Dutta
Miss Pratikha Bhattacharyee

Date: 29th July, 2021
Time: 6.30 - 7.30 pm
Platform: Google meet

6:40 PM | 2nd Alumni Interaction Session

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 2]

[Link: https://www.youtube.com/watch?v=d_hM54e4YYI]


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Activities done by Department of Chemistry
Report on the '2nd Alumni Interaction Session'

The 2nd Online Alumni Interaction Programme was held using google meet on 25th July, 2021, 6.00 pm onwards. More than 54 participants participated in the programme. The program was coordinated by Dr. Parinita Borah, Head, Department of Chemistry with an inaugural speech by the hon'ble Principal of the college Dr. Prasanna K. Dutta. The invited talk of the session was delivered by Mr. Gobin Bora, Asst. Manager, Numaligarh Refinery Limited, Golaghat. The programme was a career counselling session of the current students, on the topic of career opportunities for the Chemistry students in various sectors of Chemistry. He also shared his journey from the Bahona College till date and various hurdles came along his journey. The session was moderated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry. The session was followed by short interactive session with questions from the audiences. Finally, the programme was concluded with sincere vote of thanks by Miss. Prantika Bhattacharjee, Asst. Professor, Department of Chemistry.

Signature of the HoD:
Dr. Parinita Borah
Head
Department of Chemistry
Bahona College, Bahona

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 3]

[Link: https://www.youtube.com/watch?v=d_hM54e4YYI]

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Bahona College
Department of Chemistry
3rd Alumni Interaction Session



A
Discussion on the
Scope of Research in Chemistry and its
Initial steps

Resource Person:

Dr. Swapnali Hazarika
Alumnus, Dept. of Chemistry
Principal Scientist, NEIST, Jorhat



Welcome address:

Dr. Omar S. Ahmed
Retd. HOD, Dept of Chemistry

Date : 26/09/2021

Time : 6.00 pm

Platform: Google Meet

Join us at:

<https://meet.google.com/wpm-kxux-wwt>

Or type - wpmkxuxwwt

Organized by:

Dept. of Chemistry

Coordinator : Dr. Parinita Borah

Asst. Coordinator: Dr. Champak Dutta

Ms. Prantika Bhattcharjee

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 1]


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Bahona College

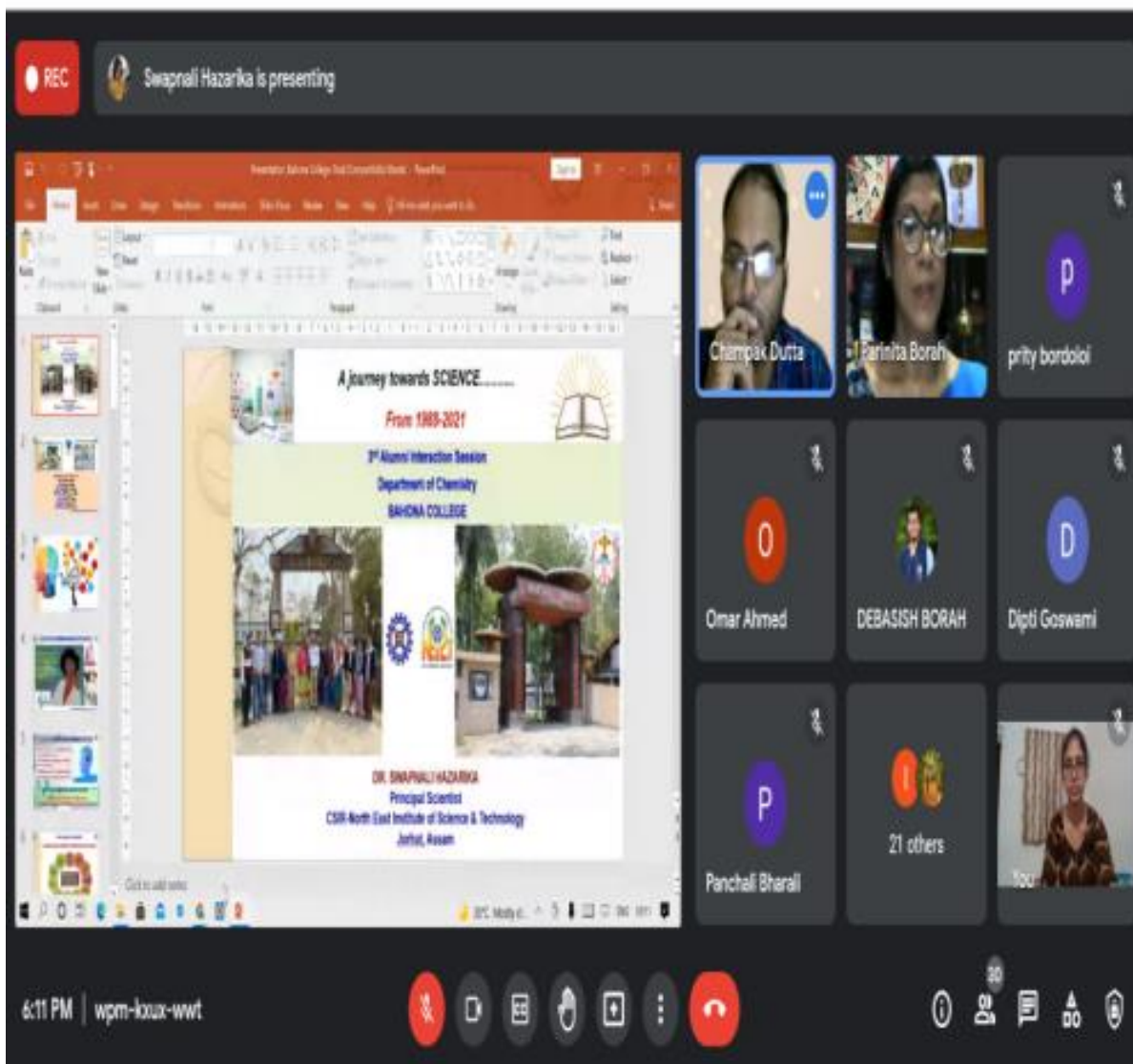



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Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry
[Page 2]


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Activities done by Department of Chemistry
Report on the '3rd Alumni Interaction Session'

The 3rd Online Alumni Interaction Programme was held using google meet on 26th September, 2021, 6.00 pm onwards. More than 52 participants participated in the programme. The program was coordinated by Dr. Parinita Borah, Head, Department of Chemistry with an inaugural speech by Dr. Omar S. Ahmed, Retired Head of the department. The invited talk of the session was delivered by Dr. Swapnali Hazarika, Scientist, North-East Institute of Science & Technology, Jorhat. The programme was another career counselling session of the current students, on the topic of research opportunities for the Chemistry students in various sectors of Chemistry. She wholeheartedly shared her journey from the Bahona College till date and various hurdles came along the journey. The session was moderated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry. The session was followed by short interactive session with questions from the audiences. Finally, the programme was concluded with sincere vote of thanks by Miss. Prantika Bhattacharjee, Asst. Professor, Department of Chemistry.

Signature of the HoD:
Dr. Parinita Borah
Head
Department of Chemistry
Bahona College, Bahona

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 3]

(Dr. P.K. Dutta)
Principal
Bahona College



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IOAC
Bahona College, Jorhat
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Department of Chemistry
Bahona College, Jorhat
4th Alumni Interaction session

“Career Opportunity in the field of Music”

Organised by
Department of Chemistry
Coordinator: Dr. Parinita Borah
Asst. Coordinator: Dr. Champak Dutta
Ms. Prantika Bhattacharjee

JOIN US



31
October 2021



From 6.00 pm
onwards



Resource Person:- Pritam Dutta

Music Producer, Alumnus,
Department of Chemistry, Bahona College

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 1]

[Link: https://youtu.be/aMNZn5_XeFA]


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Principal,
Bahona College




Coordinator
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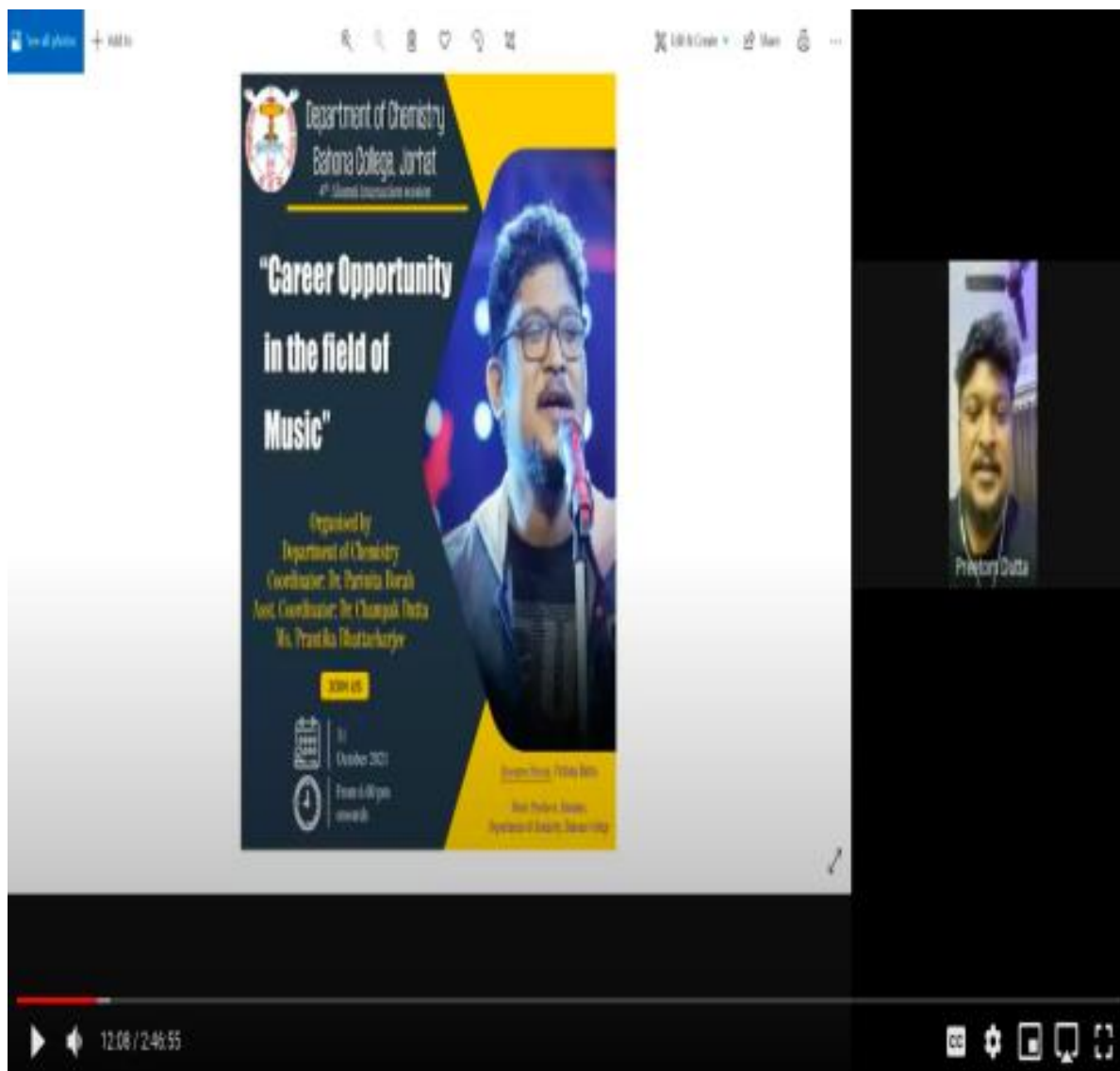


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Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 2]

[Link: https://youtu.be/aMNZn5_XeFA]


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Bahona College




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Activities done by Department of Chemistry
Report on the '4th Alumni Interaction Session'

The 4th Online Alumni Interaction Programme was held using google meet on 31st October, 2021, 6.00 pm onwards. More than 41 participants participated in the programme. The program was coordinated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry with an inaugural speech by the HoD, Dr. Parinita Borah. The invited talk of the session was delivered by Mr. Preetom Dutta, alumnus & music produce, stationed at Mumbai. The programme was about Mr. Dutta's journey from Chemistry to the field of Music and bollywood. He talked about various options available for music enthusiasts. He also shared his journey from the Bahona College till date and various hurdles came along his journey. The session was moderated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry. It was followed by short interactive session with questions from the audiences. Finally, the programme was concluded with sincere vote of thanks by Miss. Prantika Bhattacharjee, Asst. Professor, Department of Chemistry.

Signature of the HoD:

Dr. Parinita Borah

Department of Chemistry
Bahona College, Bahona

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 3]

[Link: https://youtu.be/aMNZn5_XeFA]

(Dr. P.K. Dutta)
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Department of Chemistry
Bahona College
(5th Alumni Interaction Session)

A
Lecture on
Oil Industry Business & Role of Chemistry in
Industrial Career Prospects



ऑयल इंडिया लिमिटेड
Oil India Limited



Resource Person
Dr. Jugal Hazarika
DGM- Chemical
Chemical Department
Oil India Limited, Duliajan
Alumnus, Dept. of Chemistry



WELCOME ADDRESS
Mrs. Prity Bordoloi
Retd. HOD, Dept. of Chemistry

Organised by
Dept. of Chemistry
Coordinator: Dr. Parinita Borah, HOD
Asst. Coordinator: Dr Champak Dutta
Ms. Prantika Bhattacharjee



28th
November 2021



From 6.00 pm
onwards



<https://meet.google.com/nuz-arwx-jov>
or type - nuz-arwx-jov

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 1]

[Link: https://www.youtube.com/watch?v=iDp3zjX2_1U]


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Principal,
Bahona College

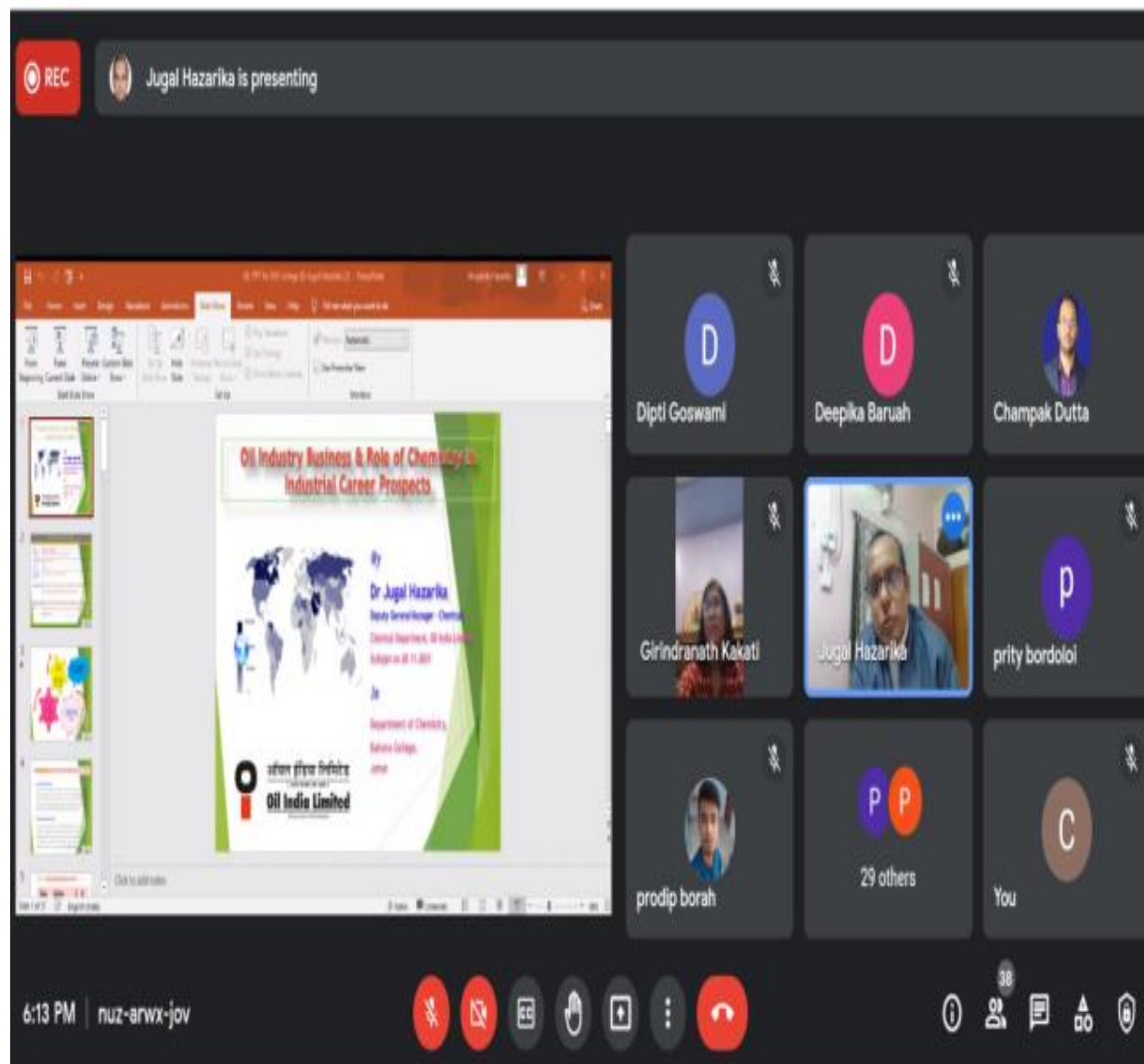



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Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 2]

[Link: https://www.youtube.com/watch?v=jDp3zjX2_1U]


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Activities done by Department of Chemistry
Report on the '5th Alumni Interaction Session'

The 5th Online Alumni Interaction Programme was held using google meet on 28th November, 2021, 6.00 pm onwards. More than 49 participants participated in the programme. The program was coordinated by Dr. Parinita Borah, Head, Department of Chemistry with an inaugural speech by the hon'ble retired Principal of the college Ms. Prity Bordoloi. The invited talk of the session was delivered by Dr. Jugal Hazarika, Deputy General Manager, Oil India Limited, Duliajan. The programme was a career counselling session of the current students, on the topic of career opportunities for the Chemistry students in the oil industries and inner functioning of the oil industries. He also shared his journey from the Bahoma College till date and various hurdles came along his journey. The session was moderated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry. It was followed by a short interactive session with questions from the audiences. Finally, the programme was concluded with sincere vote of thanks by Miss. Prantika Bhattacharjee, Asst. Professor, Department of Chemistry.

Signature of the HoD:
Dr. Parinita Borah
Head
Department of Chemistry
Bahona College, Bahona

Informative Interaction Programme Between Alumni and Current Students of Dept of Chemistry

[Page 3]

[Link: https://www.youtube.com/watch?v=iDp3zjX2_1U]

(Dr. P.K. Dutta)
Principal
Bahona College



Coordinator
IOAC
Bahona College, Jorhat
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ALUMNI INTERACTION PROGRAMME

Topic: A Special Motivational Talk



CHIEF SPEAKER

SANJOY SAIKIA

Student of Communication and Journalism
Gauhati University and Alumni Dept. of Education, Bahona College

ORGANISED BY

**Dept. of Education
Bahona College**

Coordinator: Haxi Bora, Assistant Professor,
Dept. of Education, Bahona College

Google Meet Link: <https://meet.google.com/iwx-bsvq-ajv>



**DATE: 24-06-2021
TIME: 07:00 PM**

Interaction Programme Between Alumni and Current Students of Dept of Education [Page 1]


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



BAHONA COLLEGE

বাহনা মহাবিদ্যালয়

Affiliated to Dibrugarh University

Alumni of the College are Actively Involved in the Teaching-Learning Process to Motivate both Slow and Advanced Learners



Interaction Programme Between Alumni and Current Students of Dept of Education [Page 2]


(Dr. P.K. Dutta)
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Alumni Interaction Programme



INVITED GUEST

DR. MUNMEE DUTTA SAIKIA
Researcher
The National Institute of Advanced
Industrial Science and Technology
(AIST), Tokyo, Japan

***A Successful Academic Journey from Jorhat
to Japan: Challenges and Opportunities***

Hosted By-
Dr. Gayotree Agni Borah
Head, Department of Zoology



Date: 04.08.2021 (Wednesday)
Time: 9.45 am (IST)

Join the program here through Google Meet:
<https://meet.google.com/hmr-aqbg-bkp>

Organized by
Department of Zoology
Bahoma College, Jorhat, Assam

Interaction Programme Between Alumni and Current Students of Dept of Zoology [Page 1]


(Dr. P.K. Dutta)
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Interaction Programme Between Alumni and Current Students of Dept of Zoology [Page 2]


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Regular Meetings are Held with the Guardians/Parents of the Students to Apprise Them of Their Wards' Learning Progress



By Dept of Botany [Page 1]


(Dr. P.K. Dutta)
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By Dept of Botany [Page 2]


(Dr. P.K. Dutta)
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By Dept of Political Science


(Dr. P.K. Dutta)
Principal
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



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Regular Meetings are Held with the Guardians/Parents of the Students to Apprise Them of Their Wards' Learning Progress

Dated
27.11.2021

Proceeding of parents-Teachers-Student Meet:

A 'Parents-Teachers-Student' Meeting was organised by the department of political science, Bahona college on 27-11-2021. The Meeting was opened by Miss Bipi Nath, a student of the department by performing a Bogast. The objective of the Meeting was described by Dr. Maulini Dutta, of the department. After that the college anthem was performed by the student of the 5th semester of the department. In the Meeting, the principal of the college, Dr. Pradip Kumar Dutta, delivered his precious speech by addressing the parents, teachers and students. The faculties of the department exchanged their views with the parents and the students as well. Similarly the parents has shown their active participation and suggested various means for the all-round development of the students as well as the college. Moreover, in this Meeting an association for the department of political science with two representatives from the parents was formed for pursuing various developmental programmes in the banner of the department. The president of the Meeting Dr. Ranjay Mili, HOD of Political Science gave his speech addressing the parents and students. The Meeting was ended by giving votes of thanks by Rojit Pegu, assistant professor of the department.

Head, Department of Political Science
Bahona College, Jorhat

Report of the Meeting By Dept of Political Science


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



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Meeting By Dept of Zoology


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
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Bahona College, Jorhat
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Regular Meetings are Held with the Guardians/Parents of the Students to Apprise Them of Their Wards' Learning Progress

Guardians' Meeting
Department of Zoology
Bahona College

Date: 20-04-2019 Venue: Room No 7 (Conference Hall)

Name / Signature	Guardian of Student
1. Shri Bimal Saravali	Miss Trinayana Saravali 2 nd semester
2. Shri Debon Ch. Beg.	Miss Pallabi Beg. 2 nd semester
3. Sri. Ajendra Jany.	Miss Sammi Fero.
4. Sri Dili P. Kulkarni	Miss Priyanka 4 th semester
5. Madhusima Buragohain	Meghna Mech
6. Dipjyoti Janyani	Akash Borkotoky
7. Haren Barua	Modhumita Barua
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	

[Signature]
Head,
Dept. of Zoology
Bahona College

Report of the Meeting By Dept of Dept of Zoology [Page 1]

[Signature]
(Dr. P.K. Dutta)
Principal,
Bahona College



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Coordinator
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Regular Meetings are Held with the Guardians/Parents of the Students to Apprise Them of Their Wards' Learning Progress

Guardians' Meet
Dept. of Zoology
Date: 20.04.19

Guardians' meet of dept. of Zoology is presided over by our Principal Sir, also Professor Abulhasan. With few words, the head of dept, Zoology also, Brigadier Agni Banah initiated the meeting. The objective of the meet is told by Mr. Pankajditya Bhakulint. Then the President of the meeting told the Guardians to speak a few words. Then Father of Jannoni Taya, Indran told that to increase percentage, the teachers also can't be responsible for this, both student teacher effort is needed to overcome it. Then question of Piyanka Khanikar told about some problems regarding her health and food provided by the hostel authority. Thirdly, question of Pallabi Bz, And Ananta speak about the necessity of Guardians' meet as it make possible to build proper relationship between teachers, Guardians and students. He told about the importance of proper student-teacher relationship as they are now in hostel and now the teachers are their real guardians. Then question of Tanayma Saroual told that knowledge is more important than marks. He told about the problem related to the subject-chemistry as it is quite tough without adequate amount

Report of the Meeting By Dept of Dept of Zoology [Page 2]


(Dr. P.K. Dutta)
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Regular Meetings are Held with the Guardians/Parents of the Students to Apprise Them of Their Wards' Learning Progress

of some student teacher notes. Then speech from the teachers where one H.O.D man starts with his speech. She told that the students who are absent in their classes, the guardians of them are present here. She came to light about the language problem as they are originally from Assam medium. She told about attendance problem as the attendance percentage is low among the students. She told the student guardians to look after their students properly and to be alert about their period of admission. Proper communication is essential for proper development. Absence in sectional exams is one of the major problems. Sincerity for studies and this life is needed to overcome the problems. The teachers are very much friendly and the students are given proper importance. Even a single day absence is a huge loss to the students. She concluded her speech. Then Dr. Prithom Khatwal told about feedback form criteria. IQAC discuss these problems. He proposed a feedback criteria for the guardians also and ^{explained} about the practical work that by question of Prayanta Khanika. In practical exam oral is also equally important and communication is needed, ^{that's why} many students suffer shortage of marks. Practical work depend on external examiner than the internal examiner. Language problem is a huge problem. Equal importance and balance of practical and theory is equally very important. Concept clearance is a major issue after studying only notes. Grammar problem is also highlighted by Dr. Prithom. Spelling mistakes. Then Dr. Prithom also highlighted about attendance and language problem. Conclusion of meeting was given by one of the teachers. Then Prithom Khatwal ended the meeting finally with his speech.

Report of meeting given by Mrs. A. Prithom

Report of the Meeting By Dept of Dept of Zoology [Page 3]


 (Dr. P.K. Dutta)
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 Bahona College




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Merit-Based Scholarships are Awarded by Departments to Advanced Learners Motivate Students



AI DUAL CAMERA
Shot by MK

2021/01/02 13:23

Dept of Botany Awarding Merit-Based Scholarship to Students


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



BAHONA COLLEGE
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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students

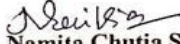


Department of Assamese

Bahona College, Bahona
Jorhat- 785101, Assam

List of Students Receiving In-House Merit-Based Scholarships offered by the Department

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Pranamika Neog	1000/-
		Sangita Dutta	1000/-
2017	Merit Scholarship	Smritirekha Kalita	1000/-
2018	Merit Scholarship	Pallabi Borah	1000/-
2019	Merit Scholarship	Papori Saikia	1000/-
2020	Merit Scholarship	Rashmirekha Nath	1000/-
2021	Merit Scholarship	Priyam Dutta	1000/-


Dr. Namita Chutia Saikia
HOD, Dept of Assamese
Bahona College, Jorhat-785101
অসমীয়া বিভাগ,
বাহনা মহাবিদ্যালয়, যোৰহাট

Date: 22.01.2022


Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Assamese


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IQAC
Bahona College, Jorhat
Pin-785101



BAHONA COLLEGE
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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students



Department of Botany
Bahona College, Bahona
Jorhat- 785101, Assam

**List of Students Receiving In-House Merit-Based
Scholarships offered by the Department**

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Ankuran Borah	1000/-
2017	Merit Scholarship	Priangshujyoti Dutta	1000/-
2018	Merit Scholarship	Puja Gogoi	1000/-
		Bisakha Hazarika	1000/-
		Mohit Kumar Singh	1000/-
2019	Merit Scholarship	BidyutPhukan	1000/-
		Sumitra Dutta	1000/-
2020	Merit Scholarship	KandarpaGayan	1000/-
2021	Merit Scholarship	Porishmita Borah	1000/-

Head of the Department
Department of Botany
Bahona College, Jorhat

Protiva Borah
22/01/22

Protiva Borah
HOD, Dept of Botany
Bahona College, Jorhat-785101

Date: 22/01/2022

Protiva Borah
Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Botany

Dr. P.K. Dutta
(Dr. P.K. Dutta)
Principal
Bahona College



Protiva Borah
Coordinator
IQAC
Bahona College, Jorhat
Pin-785101



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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students




Department of Chemistry

Bahona College, Bahona

Jorhat- 785101, Assam


List of Students Receiving In-House Merit-Based Scholarships offered by the Department

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Pranjit Borah	1000/-
		Madhusmita Baruah	1000/-
		Akash Baruah	1000/-
		Ashish Bora	1000/-
2017	Merit Scholarship	Dhrubajyoti Borah	1000/-
2018	Merit Scholarship	Nil	Nil
2019	Merit Scholarship	Nil	Nil
2020	Merit Scholarship	Nil	Nil


Dr. Parinita Borah
HOD, Dept of Chemistry
Bahona College, Jorhat-785101

Date: 22/1/22

Head
Department of Chemistry
Bahona College, Bahona


Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Chemistry


(Dr. P.K. Dutta)
Principal
Bahona College




Coordinator
IQAC
Bahona College, Jorhat
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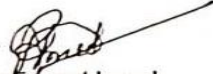


Department of Economics

Bahona College, Bahona
Jorhat- 785101, Assam

List of Students Receiving In-House Merit-Based Scholarships
offered by the Department

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Pallabi Saikia	1000/-
		Sultana Shamima Yesmin	1000/-
		Dipsikha Borah	1000/-
		Rajat Saikia	1000/-
		Kalyanjyoti Kalita	1000/-
		Sankumoni Borthakur	1000/-
2017	Merit Scholarship	Priyadarshan Baruah	1000/-
		Satyanjan Saikia	1000/-
		Manisha Goswami	1000/-
		Priyanka Borah	1000/-
		Sankalpita Borah	1000/-
		Debika Dutta	1000/-
2018	Merit Scholarship	Nil	Nil
2019	Merit Scholarship	Jyotisikha Nath	1000/-
		Rakhimoni Borah	1000/-
		Pubali Kalita	1000/-
2020	Merit Scholarship	Rajesh Gosai	1000/-
		Pallabi Pegu	1000/-
2021	Merit Scholarship	Saleha Siddika	1000/-
		Munmi Dutta	1000/-


Dr. Rofique Ahmed
HOD, Dept of Economics
Bahona College, Jorhat-785101
HoD, Department of Economics
Bahona College, Jorhat

Date: 21.01.2022


Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Economics


(Dr. P.K. Dutta)
Principal
Bahona College




Coordinator
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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students



Department of Education

Bahona College, Bahona
Jorhat-785101, Assam

**List of Students Receiving In-House Merit-Based Scholarships
offered by the Department**

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Jetapon Sarma	1000/-
		Sumi Bora	1000/-
		Shyamoljit Hazarika	1000/-
		Kanku Bora	1000/-
		Gautam Nath	1000/-
2017	Merit Scholarship	Pranjit Hazarika	1000/-
		Jyotish Borah	1000/-
		Jayanta Dutta	1000/-
2018	Merit Scholarship	Priyanka Baruah	1000/-
		Bobita Bhuyan	1000/-
		Ranjita Bezbaruah	1000/-
		Utpala Pegu	1000/-
		Bithika Bora	1000/-
2019	Merit Scholarship	Borasha Nazir	1000/-
		Jyotishna Das	1000/-
		Priyakhi Das	1000/-
		Ritupon Nath	1000/-
		Rajkumar Teye	1000/-
2020	Merit Scholarship	Priyanka Hazarika	1000/-
		Ankur Dutta	1000/-
		Poly Kalita	1000/-
2021	Merit Scholarship	Priyanka Borah	1000/-
		Popy Borah	1000/-
		Disha Hazarika	1000/-
		Samikha Nath	1000/-

INDRANI BORTHAKUR
Associate Prof
Department of Education
Bahona College, Jorhat

J. Borthakur
Dr. Indrani Borthakur
HOD, Dept of Education
Bahona College, Jorhat-785101

Date: 22.01.2022

[Signature]
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List of Students Receiving Merit-based Scholarships from Dept of Education

[Signature]
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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students



Department of English

Bahona College, Bahona

Jorhat- 785101, Assam

**List of Students Receiving In-House Merit-Based Scholarships
offered by the Department**

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Suresh Kotoky Memorial Merit Scholarship	Sukanya Baruah	3000/-
2017	Suresh Kotoky Memorial Merit Scholarship	Madhab Das	3000/-
	Faculty Aid	Babu Kalita	12,000/-
2018	Suresh Kotoky Memorial Merit Scholarship	Dibakshi Bharali	3000/-
2019	Suresh Kotoky Memorial Merit Scholarship	Manashpratim Kalita	3000/-
	HoD Aid (per Month until February 2020)	Tridip Das	2,000/- Pm
2020	Suresh Kotoky Memorial Merit Scholarship	Paranjyoti Nath	3000/-
	Financial Assistance (Sponsor Prabir Saikia Entrepreneur March 2020- 2021)	Tridip Das	3,000/- Pm
2021	Financial Assistance (Sponsor Prabir Saikia Entrepreneur November 2020-)	Rinki Dutta	3,000/- Pm

S. Saikia
Dr. Shantana Saikia
HOD, Dept of English
Bahona College, Jorhat-785101

HOD, English
Bahona College.

Date: 24.01.2022

[Signature]
Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of English

[Signature]
(Dr. P.K. Dutta)
Principal,
Bahona College



[Signature]
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IQAC
Bahona College, Jorhat
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**Department of Mathematics
and Computer Science**

Bahona College, Bahona
Jorhat- 785101, Assam

**List of Students Receiving In-House Merit-Based Scholarships
offered by the Department**

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Amar Phukan	5000/-
2017	Merit Scholarship	Dibyajyoti Chinte	5000/-
2018	Merit Scholarship	Rahul Kumar	5000/-
2019	Merit Scholarship	Madhurjya Bez	5000/-
2020	Merit Scholarship	Samiran Saikia	5000/-

Prasanta Bordoloi
HOD, Dept of Mathematics and Computer Science
Bahona College, Jorhat-785101

Date: 21-01-2022.

H.O.D.
Department of Mathematics
Bahona College, Jorhat

Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Mathematics and Computer Science

(Dr. P.K. Dutta)
Principal,
Bahona College

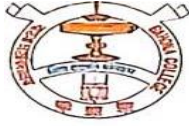


Coordinator
IQAC
Bahona College, Jorhat
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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students



Department of Political Science
Bahona College, Bahona
Jorhat- 785101, Assam

**List of Students Receiving In-House Merit-Based Scholarships
offered by the Department**

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Best Student Award	Santona Bora	1000/-
	Financial Assistance Programme	Dipsikha Nath	750/-
		Bedanta Borman	750/-
	Book Grant	Dipsikha Nath	1 Book
	Medical Health Care Assistance	Gitashree Bora	500/-
Special Assistance for SC/ST Students	Monishsa Sarkar	500/-	
2017	Best Student Award	Gorima Kolita	1000/-
	Financial Assistance Programme	Samudra Saikia	1000/-
	Book Grant	Dipen Borah	1 Book
	Medical Health Care Assistance	Tidisha Borah	500/-
	Special Assistance for SC/ST Students	Dipen Doley	500/-
Netra P.Pathak		500/-	
2018	Best Student Award	Borasha Baruah	1000/-
	Financial Assistance Programme	Dipen Chintey	800/-
	Book Grant	Prasanta Taye	1 Book
	Medical Health Care Assistance	Gitanjali Saikia	300/-
	Special Assistance for SC/ST Students	Dipen Chintey	400/-
Dibrayoti Das		400/-	
2019	Best Student Award	Mayuri Bora	500/-

List of Students Receiving Merit-based Scholarships from Dept of Political Science [Page 1]


(Dr. P.K. Dutta)
Principal,
Bahona College



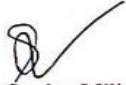

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	Financial Assistance Programme	Gayatri Dutta	500/-
	Financial Assistance Programme	Pubali Bora	1000/-
	Book Grant	Gayatri Dutta	1 Book
	Medical Health Care Assistance	Anupriya Gayan	800/-
	Special Assistance for SC/ST Students	Silpa Das	500/-
2020	Special Assistance for SC/ST Students	Niren Doley	500/-
	Best Student Award	Pori Kolita	1000/-
	Financial Assistance Programme	Dipankar Nath	1000/-
	Book Grant	Bhoirab P. Bora	1 Book
	Medical Health Care Assistance	Nishi Hazarika	800/-
	Special Assistance for SC/ST Students	Sekhar Das	500/-
		Hilary Pegu	500/-


Dr. Sanjay Mili
HOD, Dept of Political Science
Bahona College, Jorhat-785101

Date: 27/01/22

Head, Department of Political Science
Bahona College, Jorhat


Coordinator
IQAC
Bahona College, Jorhat
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List of Students Receiving Merit-based Scholarships from Dept of Political Science [Page 2]


(Dr. P.K. Dutta)
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Department of Physics

Bahona College, Bahona
Jorhat- 785101, Assam


List of Students of Department of Physics Receiving In-House Merit-Based Scholarships (Department and Siksha Sarathi)

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Rahul Saikia	1000/-
		Prokash Pegu	2000/-
		Rituraj Nath	1000/-
2017	Merit Scholarship	Rituraj Borah	1000/-
2018	Merit Scholarship	Mitra Handique	1000/-
		Manas Saikia	1000/-
2019	Merit Scholarship	Arunabh Borah	1000/-
2020	Merit Scholarship	Arunabh Borah	2000/-
	Siksha Sarathi Scholarship	Parvez Illias Hussain	5500/-
2021	Merit Scholarship	Satabdi Sikha	2000/-
	Merit Scholarship	Biman Saikia	2000/-
	Siksha Sarathi Scholarship	Parvez Illias Hussain	5500/-

Scholar
Dr. Sumbit Chaliha
HOD, Dept of Physics
Bahona College, Jorhat-785101
Department of Physics
Bahona College

Date: 31.12.2021

List of Students Receiving Merit-based Scholarships from Dept of Physics


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



BAHONA COLLEGE
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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students



Department of Statistics

Bahona College, Bahona
Jorhat- 785101, Assam

**List of Students Receiving In-House Merit-Based Scholarships
offered by the Department**

YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	Dilip Bora	1500/-
2017	Merit Scholarship	Monoj Bora	2500/-
2018	Merit Scholarship	Nitusna Dutta	3000/-
2019	Merit Scholarship	Chinmoy Bora	1500/-
2020	Merit Scholarship	Bastov Kr. Kalita	1500/-
		Alongkrita Goswami	1500/-

Aditi Baruah
27.1.2022
HEAD
Department of Statistics
Bahona College
Jorhat (Assam)
Dr. Aditi Baruah
HOD, Dept of Statistics
Bahona College, Jorhat-785101

Date: 27.1.2022

P. K. Dutta
Coordinator
IQAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Statistics

P. K. Dutta
(Dr. P.K. Dutta)
Principal,
Bahona College



P. K. Dutta
Coordinator
IQAC
Bahona College, Jorhat
Pin-785101



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Merit-Based Scholarships are Awarded to Advanced Learners Motivate Students



Department of Zoology

Bahona College, Bahona

Jorhat- 785101, Assam

**List of Students Receiving In-House Merit-Based Scholarships
offered by the Department**


YEAR	NAME of SCHOLARSHIP	NAME of BENEFICIARY	AMOUNT
2016	Merit Scholarship	SomimNasreen	500/-
2017	Merit Scholarship	Tridipjyoti Saikia	500/-
		SomimNasreen	500/-
		Uttaran Madhukalya	500/-
		Shilpika Dutta	500/-
2018	Merit Scholarship	Acinta Pran Saikia	Book Support
2019	Merit Scholarship	Abidit Dutta	Book Support
		Kaustav Pran Saikia	Book Support
2020	Merit Scholarship	Nil	Nil

for
B. Bahadial

Dr. Gayotree Agni Borah
HOD, Dept of Zoology
Bahona College, Jorhat-785101

Date: 27-01-2022

Head,
Dept. of Zoology
Bahona College


Coordinator
IOAC
Bahona College, Jorhat
Pin-785101

List of Students Receiving Merit-based Scholarships from Dept of Zoology


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science (From 2016-17 to 2020-2022)

No.	Name of the Student	Year	Name of the Welfare Schemes	Total No. of Benefited Students
1	Bhujanga Bhagabata	2016-2017	1. Best Student Award (securing highest marks in degree final year examination)	1
	Santosh Bara		2. Financial Assistance Programme (Admission & Forms Fill up)	2
	Dipsikha Nath		3. Book Grant Programme	1
	Bejanta Borman		4. Medical Health Care Assistance	1
	Dipsikha Nath		5. Special Assistance for SC/ST Students	1
	Mytasree Bara			
Monica Barman				


Head, Department of Political Science
Bahona College, Jorhat

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

[Page 1]


(Dr. P.K. Dutta)
Principal,
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Bahona College, Jorhat
Pin-785101



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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science - 2026-27

Sr. No.	Name of the Student	Amount	Signature	Welfare Schemes
1	Santona Bara	2000/-	S Bara	Best Student Award
2	Dipankha Nath	750/-	Dipankha Nath	Financial Assistance Program
	Balanta Barman	750/-	B Barman	(Admission and Fee Relief)
3	Dipankha Nath	1000/-	Dipankha Nath	Book Grant Program
4	Ujjwal Bara	500/-	Ujjwal Bara	Medical Health Care Assistance
5	Manisha Sarika	500/-	Manisha Sarika	Special Assistance for SC/ST Students

Head, Department of Political Science
Bahona College, Jorhat

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

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(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science (From 2016-17 to 2020-2022)

Sl. No.	Name of the Student	Year	Name of the Welfare Schemes	Total No. Of Beneficial Students
1	Geetima Kalita	2017-2018	1. Best Student Award (securing highest marks in degree final year examination)	1
	Sameerha Saikia		2. Financial Assistance Programme (Admission & Form Fill up)	1
	Dipen Garah		3. Book Grant Programme	1
	Tideisha Garah		4. Medical Health Care Assistance	1
	Dipen Doley (ST) Neelam Anan Patil (ST)		5. Special Assistance for SC/ST Students	2

Head, Department of Political Science
Bahona College

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science
[Page 3]


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science - 2017-18

S. No	Name of the Student	Amount	Signature	Welfare Schemes
1	Gerima Kalita	300/-	G. Kalita	Best Student Award
2	Sameera Sarkin		S. Sarkin	Financial Assistance Programme (Scholarship and Form Fill-up)
3	Dipen Borah	1 Book	D. Borah	Book Grant Programme
4	Tidisha Borah	500/-	T. Borah	Medical Health Care Assistance
5	Dipen Doley	500/-	D. Doley	Special Assistance for SC/ST Students
	Netra P. Patkoi	500/-		

Head, Department of Political Science
Bahona College, Jorhat

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

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(Dr. P.K. Dutta)
Principal,
Bahona College




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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science (From 2016-17 to 2020-2022)

Sl. No.	Name of the Student	Year	Name of the Welfare Schemes	Total No. Of Beneficial Students
1	Borasha Ghosh	2018-2019	1. Best Student Award (securing highest marks in degree final year examination)	1
	Dipan Chintoy		2. Financial Assistance Programme (Admission & Form Fill up)	1
	Brasanda Thye		3. Book Grant Programme	1
	Jyotindra Saikia		4. Medical Health Care Assistance	1
	Dipan Chintoy (SC) D. Broyati Das (SC)		5. Special Assistance for SC/ST Students	2


Head, Department of Political Science
Bahona College

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

[Page 5]


(Dr. P.K. Dutta)
Principal,
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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science - 2023-23

Sl. No.	Name of the Student	Amount/Signature	Welfare Schemes
1	Garacha Bannah	100/- A. Bannah	Best Student Award
2	Dipan Chinty	A. Chinty	Financial Assistance Programme (Admission and Exam Fee)
3	Brasanta Taya	I. Bannah P. Bannah	Book Grant Programme
4	Uttamjati Saikun	300/- G. Bannah	Medical A. Case Assistance
5	Dipan Chinty	400/- D. Chinty	Special Assistance for SC/ST Student
	Dibrajyoti Das	400/- D. Das	

Head, Department of Political Science
Bahona College, Jorhat

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

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(Dr. P.K. Dutta)
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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science (From 2016-17 to 2020-2021)

Sl. No.	Name of the Student	Year	Name of the Welfare Schemes	Total No. Of Benefited Students
1	Mayani Bara	2019-2020	1. Best Student Award (securing highest marks in degree final year examination)	2
	Gayatri Dutta		2. Financial Assistance Programme (Admission & Form Fill up)	1
	Purbati Bara		3. Book Grant Programme	1
	Gayatri Dutta		4. Medical Health Care Assistance	1
	Sanskritiya Gayan		5. Special Assistance for SC/ST Students	2
	Silpa Das (ST)			
	Nirun Doley (ST)			

Head, Department of Political Science

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science



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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science - 2019-20

Sr. No.	Name of the Student	Amount	Signature	Welfare Schemes
1	Mayuri Gera	500/-	H. Bora	Best Student Award
	Gayatri Dutta	500/-	Gayatri Dutta	
2	Rubali Bora		Rubali Bora	Financial Assistance Bursary (Admission and Form Filling)
3	Gayatri Dutta	1500/-	Gayatri Dutta	Bank Grant Program
4	Anupriya Gogoi	900/-	Anupriya Gogoi	Medical H. C. Assistance
5	Silpa Das	500/-	Silpa Das	Special Assistance for SC/ST Students
	Nirvan Doley	500/-	Nirvan Doley	

Head, Department of Political Science
Bahona College, Jorhat

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

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(Dr. P.K. Dutta)
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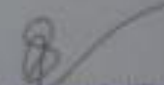


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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science (From 2016-17 to 2020-2022)

Sl. No.	Name of the Student	Year	Name of the Welfare Schemes	Total No. Of Benefited Students
1	Peri Kalita	2020-2021	1. Best Student Award (securing highest marks in degree final year examination)	2
	Dipankar Nath		2. Financial Assistance Programme (Admission & Form Fill up)	2
	Chinab P. Gona		3. Book Grant Programme	2
	Nishi Hegonika		4. Medical Health Care Assistance	2
	Shakar Das (ST) Mitani Raju (ST)		5. Special Assistance for SC/ST Students	2


Head, Department of Political Science
Bahona College

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science
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(Dr. P.K. Dutta)
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Merit-Based Welfare Schemes are Awarded to Advanced Learners Motivate Students

Welfare Schemes
Department of Political Science - 2020-21

Sl. No.	Name of the Student	Amount	Signature	Welfare Schemes
1	Pouk Kalita	1000/-	Pouk Kalita	Best Student Award
2	Dipankar Nath	1.000	D. Nath	Financial Assistance Bryasanna (Journalling and Term Fillup)
3	Bhairab P. Gera	1.000	B. Gera	Book Grant Bryasanna
4	Nishi Hazarika	500/-	Nishi Hazarika	Medical H.C. Assistance
5	Shakher Das	500/-	Shakher Das	Special Assistance for 50/37 Students
	Hilari Rajee	500/-	Hilari Rajee	

Head, Department of Political Science
Bahona College

List of Students Benefiting from Merit-based Welfare Schemes of Dept of Political Science

[Page 10]

(Dr. P.K. Dutta)
Principal,
Bahona College



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Bahona College, Jorhat
Pin-785101



BAHONA COLLEGE

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Mentoring Mechanism Devised by Faculty of individual Depts Allow both Advanced and Slow Learners to Identify Their Strengths and Learn at Their Own Pace

AB

1st semester, 2021

Semester	Mentor's name	Name of student with phone no.	Home address	Students name with contact no.	Remarks (HSLC, HS %)	Mentor's signature
	Dr. Parimita Borah	1. Manelika Tamuly Ph - 9577511759	Vill. Bhuvanasa, P.O - Bhuvanasa Pin - 785104	Ujjwal Tamuli Ph - 9401083009	HSLC - 68.16% HS - 77.2%	
1st		2. Aniketa Nath Ph - 7637893231	Bahona Nath Gaon, Jorhat Pin - 785101	Parag Kumar Nath Ph - 9435575752	HSLC - 78% HS - 89%	
		3. Divyanga Nath Ph - 9395434393	Vill. Rangdei dand gaon P.O - Ranche Tiniali Pin - 785101 Dist - Jorhat	Rahul Chandra Nath Ph - 9707313309	HSLC - 72.67% HS - 79%	

Head
Department of Chemistry
Bahona College, Bahona

Mentoring Register of Dept of Chemistry

(Dr. P.K. Dutta)
Principal,
Bahona College



Coordinator
IOAC
Bahona College, Jorhat
Pin-785101



BAHONA COLLEGE

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Mentees: 1st Sem : 2020-21
 ① Gouranga Bora
 ② Manash Joti Borah

Dept of Economics

Date and time	Mentoring topic	Action taken	Signature
19.11.2020 1:55 PM	Course oriented - Importance and outcomes of the course explained. Nature of economic study connected. Advised to go with regular and systematic study.	Asked to prepare a write up "why I study Economics" and to be checked up by me.	Gouranga Bora Manash Borah
2.12.2020	The write up checked. Benefit studying economics explained. Some environment of study enquired. Fleas traced. Advised to adjust with them by citing some success stories.	Asked to prepare a write up on "what I want to be" and to be checked up by me.	Gouranga Bora Manash Borah
26.12.2020	The write up checked. Counseled how to proceed. Advised how to read news paper and what magazine and journal to read in library.	Asked to maintain a file with news clippings important from economic point of view.	Gouranga Bora Manash Borah
20.01.2021	Oriented with the methods of group discussion. 10 topic discussed. Importance of G.D explained.	Asked to be prepared for a mock G.D.	Gouranga Bora Manash Borah
6.03.2021	Mock G.D. organized. Lapses pointed out and corrected. Advised how to make advanced note and treat concern in exam.	Asked to submit old question paper.	Gouranga Bora Manash Borah

H.O.D. Department of Economics
Bahona College, Jorhat

Mentoring Register of Dept of Economics [Page 1]


 (Dr. P.K. Dutta)
 Principal,
 Bahona College




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Mentees: 3rd Sem : 2020-21
 ① Chumpi Dutta
 ② Ritika Paul

Dept of Economics

Date and Time	Topic of mentoring	Action taken	Signature
10.11.2020 2:10 Pm	Course oriented, importance and outcomes of the course explained. Home environment enquired of. Advised to go for regular and systematic study from the beginning.	Asked to prepare a daily time table of study in relation to home study env. out to be checked by me.	Ritika Paul Chumpi Dutta
20.11.2020 2:15 Pm	The time table checked, explained how to adjust with home trouble citing my own experience and also citing some other success stories.	Reading materials provided, must asked to consult with me if any difficulties found.	Ritika Paul Chumpi Dutta
18.12.2020 2:45 Pm	Oriented how to read in library during off time and about magazines and journals should be read. Also suggested to keep touch with current issues through news paper.	Asked to maintain a file of news articles with news paper cutting having important information of current issues.	Ritika Paul Chumpi Dutta
4.01.2021	Promised on probable topics of field and seminar. Advised to go for a field study in near locality and prepare seminar paper there on.	Asked to prepare a questionnaire on the field study topic.	Ritika Paul Chumpi Dutta
19.2.2021	Field study report and seminar paper checked and advised to correct the lapse.		Ritika Paul Chumpi Dutta

HOD, Department of Economics
 Bahoma College, Jorhat.

Mentoring Register of Dept of Economics [Page 2]


 (Dr. P.K. Dutta)
 Principal,
 Bahoma College




 Coordinator
 IOAC
 Bahoma College, Jorhat
 Pin-785101



Mentoring Mechanism Devised by Faculty of individual Depts Allow both Advanced and Slow Learners to Identify Their Strengths and Learn at Their Own Pace

Mentees: First Semester: 2019-20
 ① Mukunda Madhab Bora
 ② Mithu Bora

Dept of Economics

Date and Time	Mentoring topic	Action taken	Signature
21.6.2019 10:15am	Course oriented. Impor- tance and outcomes of the course explained. C.B.S System oriented. Asked to go with a regular and systematic study.	Asked to prepare a study time table and to be checked by me.	Mithu Bora Mukunda M. Bora
8.7.2019 10:15am	Timetables checked and modified. Advice to strictly follow the time table. Nature of economic study explained & advice to set the future prospects economic honours explained.	Asked to pre- pare a write up on "why to study eco- nomics".	Mithu Bora Mukunda M. Bora
28.8.2019 10:15am	The write up checked and necessary advice made. Study en- vironment of study enquired and sug- gested to do just with few. Some success stories cited.	Asked to write a success story experienced.	Mithu Bora Mukunda M. Bora
21.9.2019 10:15am	The write up checked. The rules of G.D explained. The probable topics of G.D dis- cussed. Advised to hold a mock G.D.	Advised to pre- pare for mock G.D.	Mithu Bora Mukunda M. Bora

HoD, Dept of Economics
Bahona College, Jorhat.

Mentoring Register of Dept of Economics [Page 3]


 (Dr. P.K. Dutta)
 Principal,
 Bahona College




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 Bahona College, Jorhat
 Pin-785101



Mentoring Mechanism Devised by Faculty of individual Depts Allow both Advanced and Slow Learners to Identify Their Strengths and Learn at Their Own Pace

Mentees: Second Sem; 2019-20
 ① Ritika Paul
 ② Chumpi Dutta

Dept. of Economics

Date and time	Mentoring topic	Action taken	Signature
10-02-2020 1:15 PM	Course content, important points and outcome of the course explained. Nature of economics study counselled. Reading materials suggested. Advised to go with regular and systematic study.	Asked to prepare a time table of daily study and to be checked by me.	Ritika Paul Chumpi Dutta
23-02-2020 1:15 PM	The time-table checked. Showed how an advanced note can be prepared. Some self-reference books provided. Advised to keep touch with relevant current socio-economic issues.	Asked to prepare a write-up on "What I want to be."	Ritika Paul Chumpi Dutta
11-03-2020 1:15 PM	The write-up checked and advised with some supporting information. National values discussed.	Asked to prepare a write-up on multiplicity of economic activities.	Ritika Paul Chumpi Dutta
Mentoring shifted to phone and WhatsApp because lockdown for this pandemic. For this period no systematic mentored maintained. It resumed up to September 2020.			

HoD, Department of Economics,
Bahona College, Jorhat

Mentoring Register of Dept of Economics [Page 4]

(Dr. P.K. Dutta)
 Principal,
 Bahona College



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Mentoring Session being Conducted by Faculty of Dept of Economics


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
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Bahona College
Department of History
Minutes of the Mentoring Session held on 26/10/2021

For the students of 3rd and 5th Semesters, a mentoring session held at Room No. 83 under the mentorship of Dr. Fakrul Islam Laskar at 1:30 P.M. The following students were present:

3rd Semester

No.	Name	Discussed subjects
1		Girls' washroom is lack of maintenance and unhygienic.
2		Not sufficient history text books in the library.
3		Facing problems to attend the first class due to transport issue.
4		Mentioned about the need for Women's NCC.

5th Semester

No.	Name	Discussed subjects
1		Informed about the unhygienic condition of Girls' washroom.
2		Informed that text books related to B.A. 5 th Semester in Assamese medium are not available.
3		Due to transport issue, often face problems in attending the first class.

Dr. Fakrul Islam Laskar
Assistant Professor
Department of History

Date: 26/10/

Mentoring Register of Dept of History [Page 1]


(Dr. P.K. Dutta)
Principal,
Bahona College





Coordinator
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Bahona College, Jorhat
Pin-785101



Mentoring Mechanism Devised by Faculty of individual Depts Allow both Advanced and Slow Learners to Identify Their Strengths and Learn at Their Own Pace

Action Taken Report

1. The department of History has decided to talk with the college authority regarding the Girls's washroom issues.
2. The department will forward the issue of insufficiency of History text books to the Librarian.


Keshab Chandra

HOD

Department of History

HEAD
Department of History
Bahona College, Jorhat

Date: 27/10/21



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Sl. No.	Name of the Mentee	Department	Roll No.	Grade	Name of the Mentor	Department
P. Bora	Pranab Barua	English	660720	5796	Pranab Barua	Debating Skill
	Manoj Kumar	English	9470211	23	Prabir Barua	Debate
	Chaitanya Barua	English	70773025	81	Prabir Barua	Debate
	Sanjay Barua					
	Pranab Barua	English	7470310	285	Pranab Barua	Personal Tutor
	Pranab Barua	English	7557404	297	Pranab Barua	
	Subhankar Barua	English	6007503	84	Pranab Barua	
	Pranab Barua					
	Pranab Barua					
	Pranab Barua					
S. Barua	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	
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	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	
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	Pranab Barua	English	660720	947	Pranab Barua	
	Pranab Barua	English	660720	947	Pranab Barua	

Mentoring Register of Dept of Political Science [Page 2]


 (Dr. P.K. Dutta)
 Principal,
 Bahona College




 Coordinator
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Mentoring Mechanism Devised by Faculty of individual Depts Allow both Advanced and Slow Learners to Identify Their Strengths and Learn at Their Own Pace

Mentoring Register Date: July 2020 - 2021 (Odd semester)

Semester	Name of the Mentor	Name of the students with mobile number	Home Address & Present address	Parents/Guardian name with Address	Signature of the student	Remarks
Sem I	Dr. Sumbit Chakraborty	Diku Saitia Mobile: 9864867716	Home: Guwahati, PO. Chaugunji Jorhat. Majuli - 785110. Parent Address: C/o Ashutosh Dutta Charigaon Sonari gow Mobile: 9954485381	Dilip Saitia 8011707531 Dipakal Saitia 8011707531	Diku Saitia	
		Mridupalon Senapati 9101464470	Bokhil Kothalguri, Majuli Parent: C/o Robin Sakma Bahagia Bahoma	Roobin Senapati 6901070847 Boranati Senapati Local Gundian Ashutosh Saitia 9864990319	Mridupalon Senapati	
Sem III	Dr. Sumbit Chakraborty	Ashok Doley 7896460796	Jangam Bishupurigaon, Jangaimukh, Majuli	Sibin Ch Doley 600734199 Binuprasanna Doley	Ashok Doley	
Sem V	Dr. Sumbit Chakraborty	Biky & Bicky Dey 7635866732	Dhumukhia, Bokajan Kabi Langlang	Jaganish Dey 8135061921 Bijoyeta Dey 8812209912 Local Gundian Himangshu Dhar 600694403	Biky Dey	
		Satabdisikha 97065-10933	Sonari Gaon, Charigaon Jorhat	Babul Tamuly 9435053292 Housum Tamul 7002730118	Satabdi Sikha	
		Nihar Dutta 7635806522	Charigaon, Jorhat	Dilip Dutta 9954020831 Dipa Dutta 9954013248	Nihar Dutta	

S. Chakraborty
Head
Dept. of Physics
Bahona College

Mentoring Register of Dept of Physics


(Dr. P.K. Dutta)
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Bahona College




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Career Counselling Programmes Allow both Advanced and Slow Learners to Identify Their Potentials and Map Out Their Career Accordingly



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Career Counselling Programmes Allow both Advanced and Slow Learners to Identify Their Potentials and Map Out Their Career Accordingly



Placement Cell, Bahona College
in collaboration with Internal
Quality Assurance Cell (IQAC)
presents

"Science as a Career
after Graduation"

Speakers



Dr. Hreedish Kakoty

Data Science Consultant at Arcadis,
Bangalore.
(PhD from Indian Institute of Science)



Dr. Angshuman Deka

Post-Doctoral Researcher at Purdue
University, USA.
(Phd from Kyushu Institute of Technology,
Japan)



Mr. Vishal Choudhury

PhD researcher at Indian Institute of Science,
Bangalore.

Moderator

Mr. Bikram Bora

Convenor, Placement Cell
Bahona College



DATE: 18-07-2021

TIME: 07:00 PM

Platform Google Meet

Google Meet Link:

<https://meet.google.com/ffn-ovis-yov>

Organised by Placement Cell [Page 1]


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Principal,
Bahona College




Coordinator
IQAC
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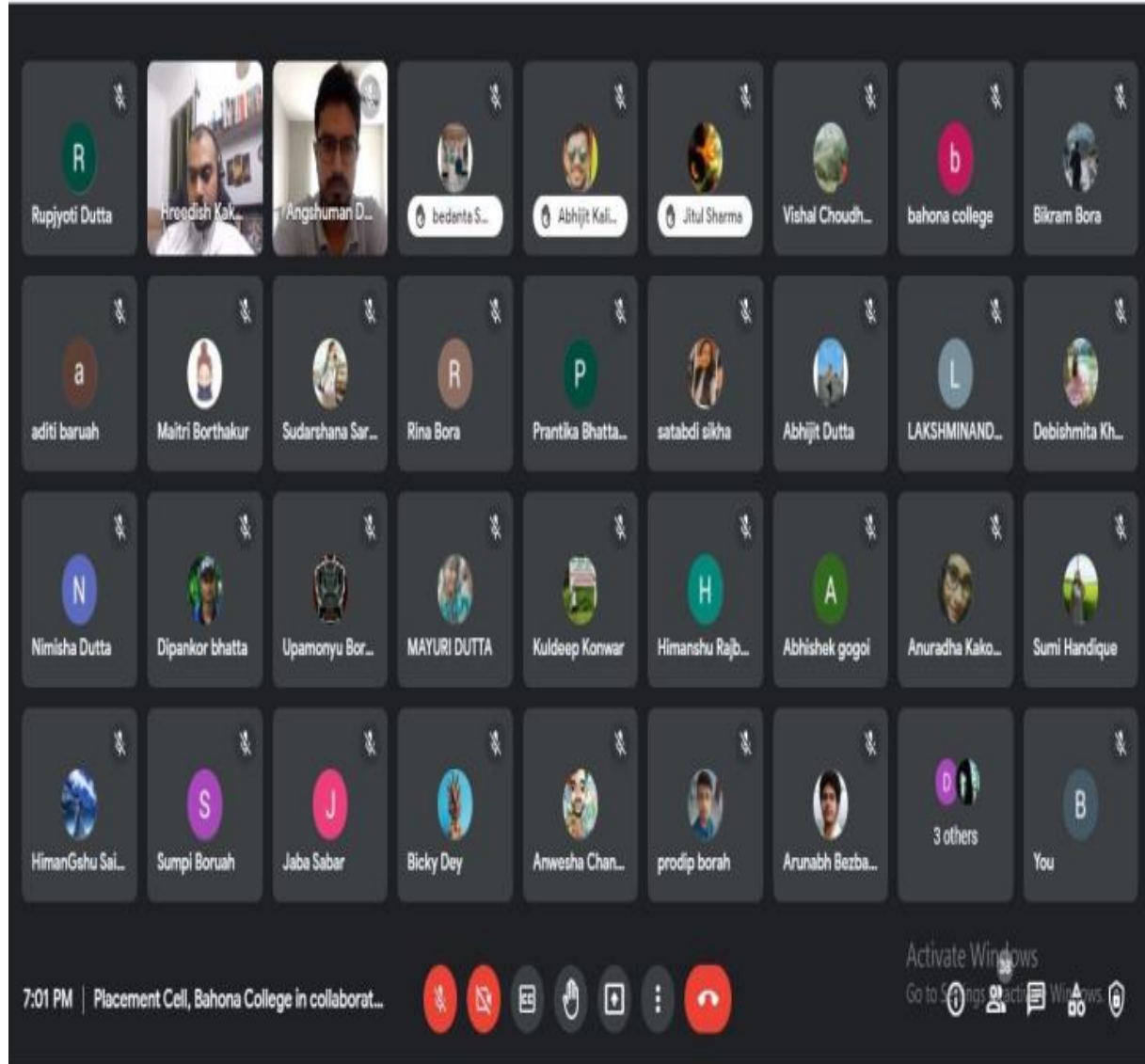


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Career Counselling Programmes Allow both Advanced and Slow Learners to Identify Their Potentials and Map Out Their Career Accordingly



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Online Webinar for Learners


meet.google.com/aog-oxvg-bfs

REC Subasit Borah is presenting

A State Level Web Lecture On


A GLANCE OVER THE PROSPECTS AFTER GRADUATION IN PHYSICAL SCIENCES

Organised By Department of Physics, Bahona College, Jorhat




03-June-2021


Subasit Borah




Your computer might slow down while running video effects




Subasit Borah



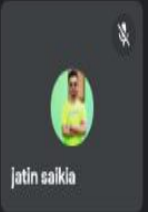
Dr. Himanshu Rajb...




Digonta Pd Gogoi




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dipali kharghoria



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5:28 PM | aog-oxvg-bfs

Activate Windows
Go to Settings to activate Windows.

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Online Webinar for Learners

meet.google.com/jfc-jazy-ygg

Apps Reading list

REC Jugal Talukdar is presenting

The Power of Quantum Computer

Jugal Talukdar

Aishawnnya Shar...

Dr. Himanshu Rajb...

biswajit bonia

Dr. Bhaskar Jyoti ...

Debishmita Kharg...

Upamonyu Borah

Chiranjee

You

Turn on microphone (ctrl + d)

3:59 PM | jfc-jazy-ygg

Activate Windows
Go to Settings to activate Windows.

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Online Webinar for Learners

WEBINAR on Chemical Sciences

Resource Persons

Organised By

Department of
Chemistry
Bahona College, Bahona



Dr. Ghanashyam Bez
Professor, Chemistry
Department
NEHU, Shillong



Dr. Ramesh Ch. Deka
Dean, School of Sciences
Professor, Department of
Chemical Sciences
Tezpur University, Assam

Co-ordinator



Dr. Parinita Borah
H.O.D., Department of Chemistry
Bahona College, Bahona.



Inaugurator
Dr. Prasanna Kr. Dutta
Principal,
Bahona College

Jt. Co-ordinator



Ms. Aradhana Saikia

17th August, 2020

11:00 Am - 1:00PM



Dr. Champak Dutta

Meetig Platform
: Google Meet

link:

Free Registration link :
<https://forms.gle/DThnmZqkDWG5koYo8>

Organised by Dept of Chemistry [Page 1]


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Principal,
Bahona College

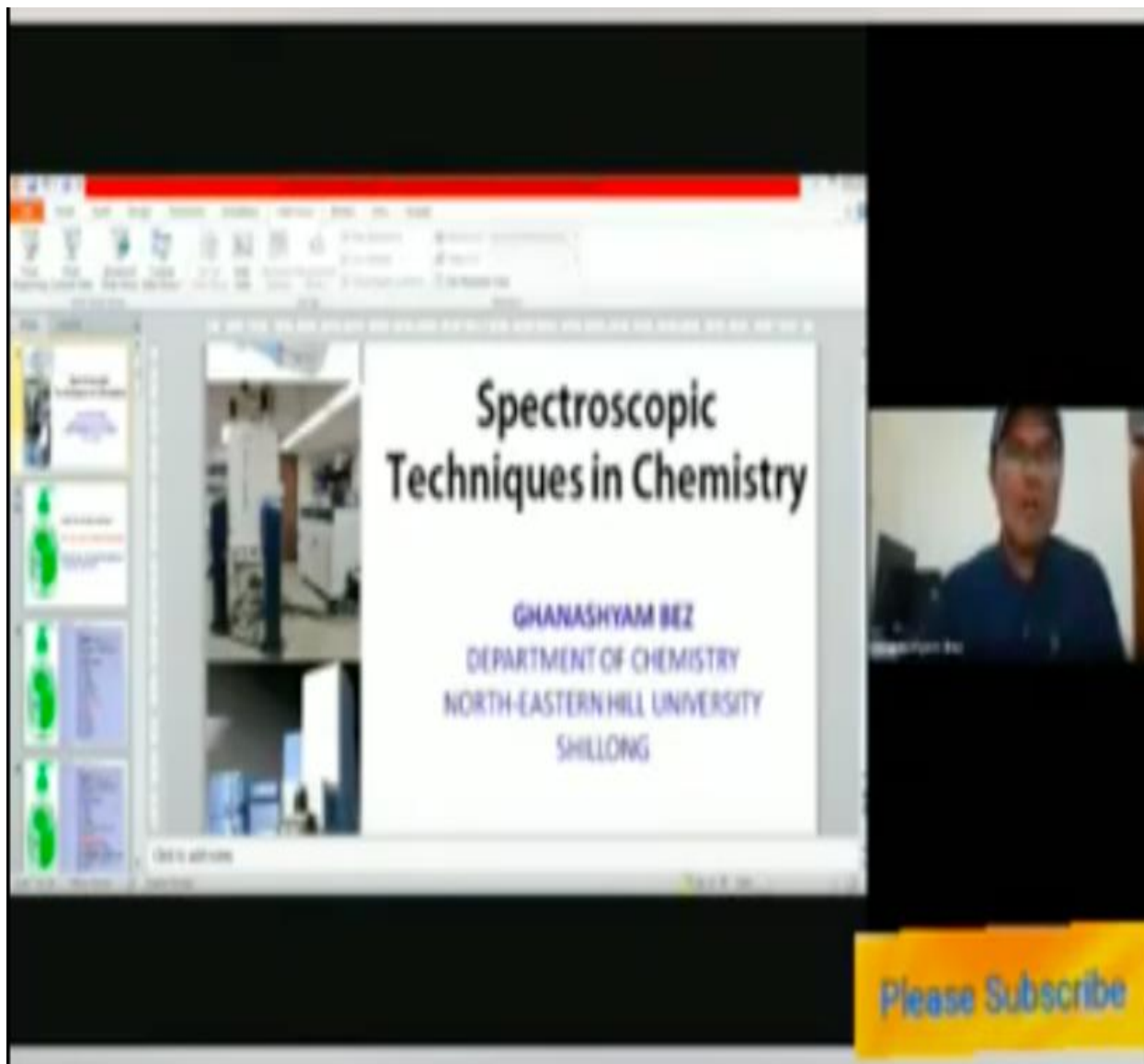



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Online Webinar for Learners



Organised by Dept of Chemistry [Page 2]


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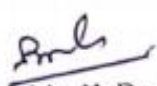


Online Webinar for Learners

Activities done by Department of Chemistry

Report on the "Webinar on Chemical Sciences"

A Webinar on the Chemical Sciences was held using online mode on 17th August, 2019 in the department of Chemistry, Bahona College. In light of CoVID-19 lockdown to promote Chemistry and keep the students engaged, the webinar was held; google meet platform. More than 128 participants from all over the state of Assam participated in the webinar. The program was coordinated by Dr. Parinita Borah, Head, Department of Chemistry with an inaugural speech by the hon'ble Principal of the college Dr. Prasanna K. Dutta. The first talk of the session was delivered by Prof. Ramesh C. Deka of Tezpur University. He talked about development of quantum mechanics in connection to chemistry. The second talk was delivered by Prof. Ghanshyam Bez of the North Eastern Hill University (NEHU). He enlightened the audience on the topic of applications of spectroscopy using the hand sanitizer as an example. The session was moderated by Dr. Champak Dutta, Asst. Professor, Department of Chemistry. Both sessions were followed by short interactive sessions with questions from the audiences. Finally, the programme was concluded with sincere vote of thanks by Miss. Aradhana Saikia, Asst. Professor, Department of Chemistry.


Signature of the HoD:
Head
Department of Chemistry
Bahona College, Bahona

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meet.google.com/oti-dkoh-ymy

Himanshu Rajbongshi is presenting

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following text: "UNDERGRADUATE PHYSICS LECTURE SERIES (UPLS), 2021 (19-31 July)", the college logo, and "ORGANISED BY DEPARTMENT OF PHYSICS BAHONA COLLEGE, JORHAT-785101 ASSAM". A sidebar on the right offers options like "Export PDF" and "Adobe Export PDF". The bottom of the screen shows a grid of participants: Aishawnya Shar..., Himanshu Rajbon..., Debishmita Kharg..., Bibek Pegu, Momi Sarma, shailon mill, Kaushiki Agni Bora, Mayur He, and You. The bottom status bar indicates the time as 10:55 AM and the meeting ID as oti-dkoh-ymy.

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Bahona College

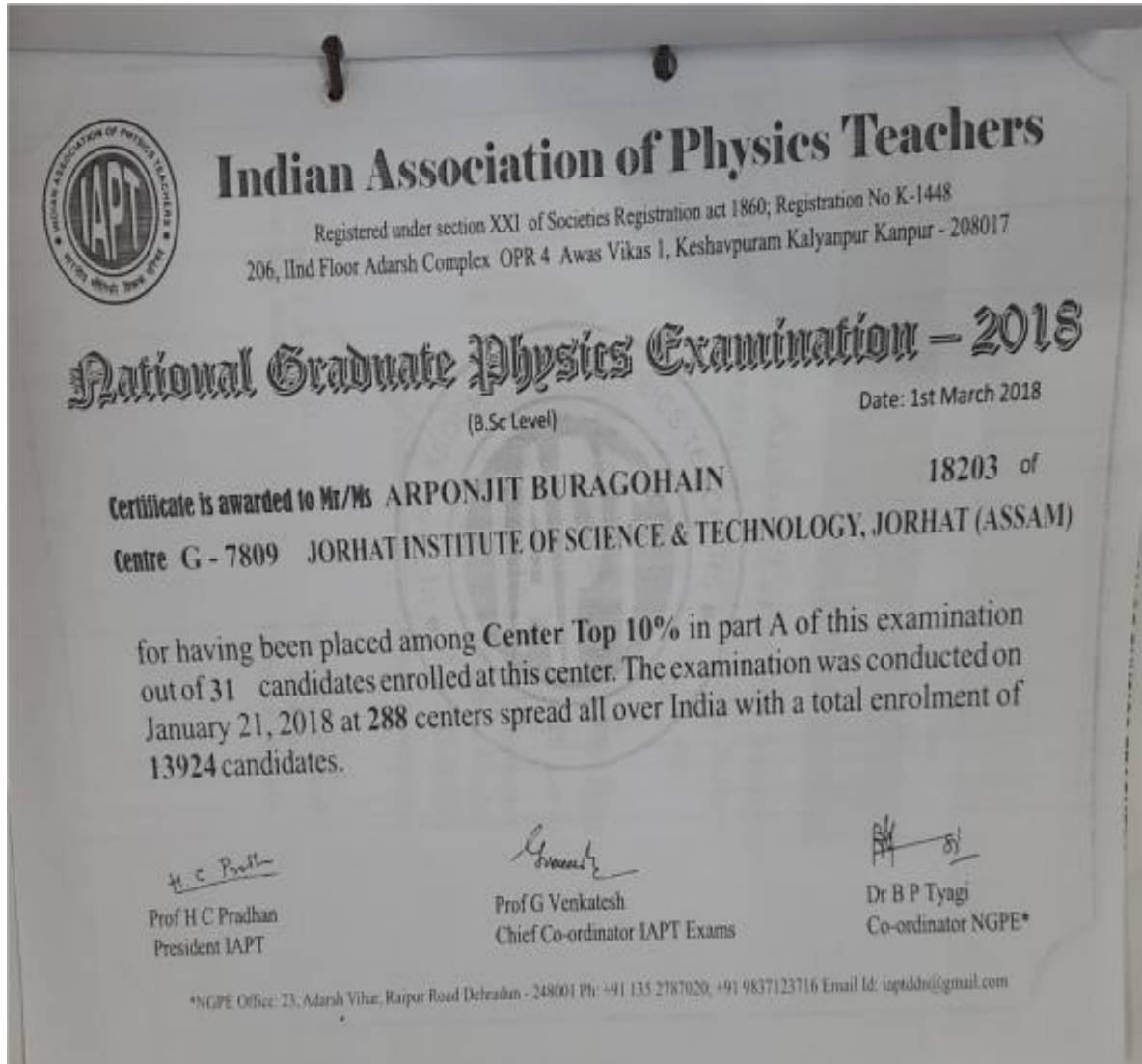



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Awards Won by Advanced Learners at Academic Events



By Student of Dept of Physics [Page 1]

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(Dr. P.K. Dutta)
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Bahona College

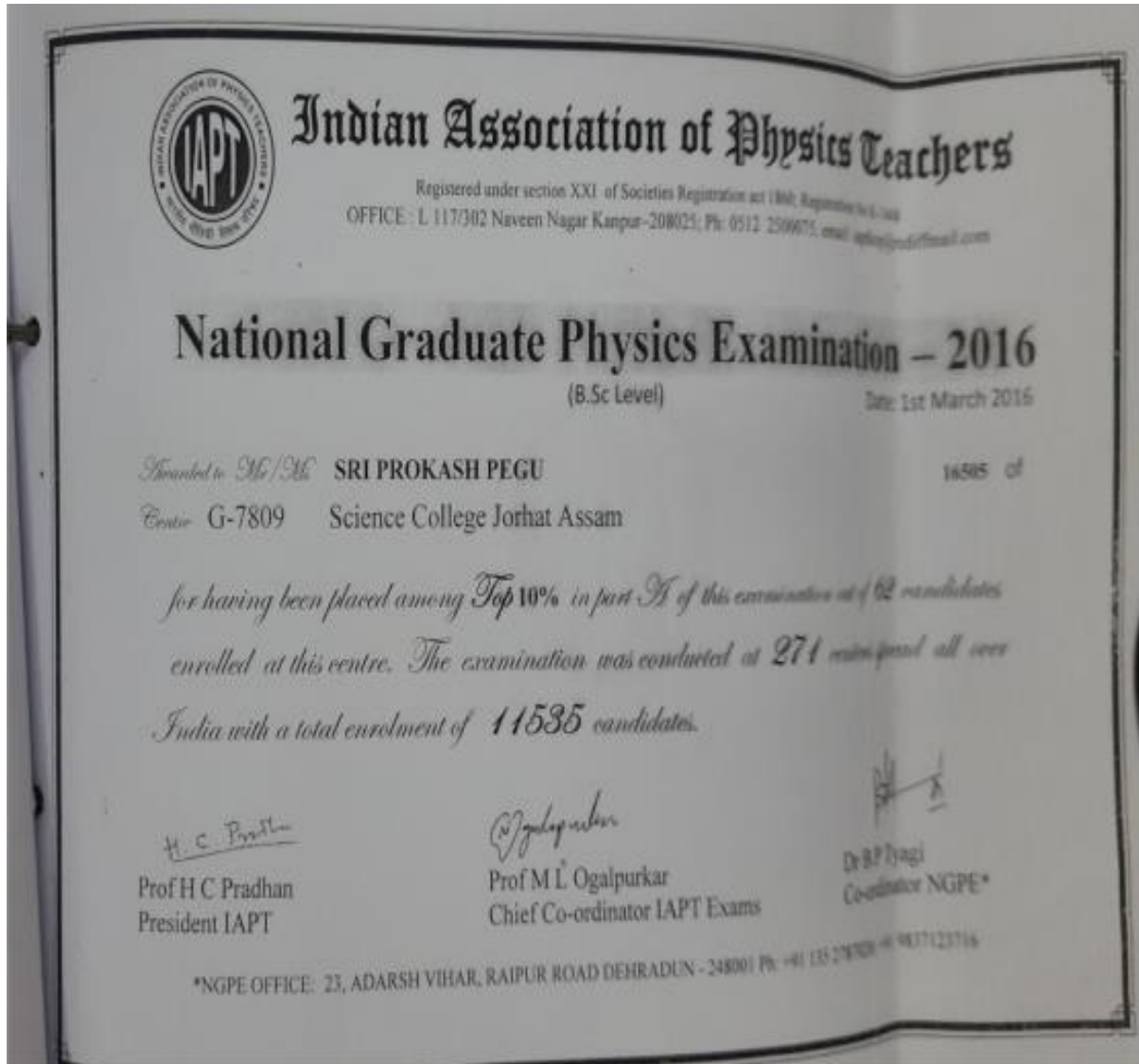


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Awards Won by Advanced Learners at Academic Events



By Student of Dept of Physics [Page 2]

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 (Dr. P.K. Dutta)
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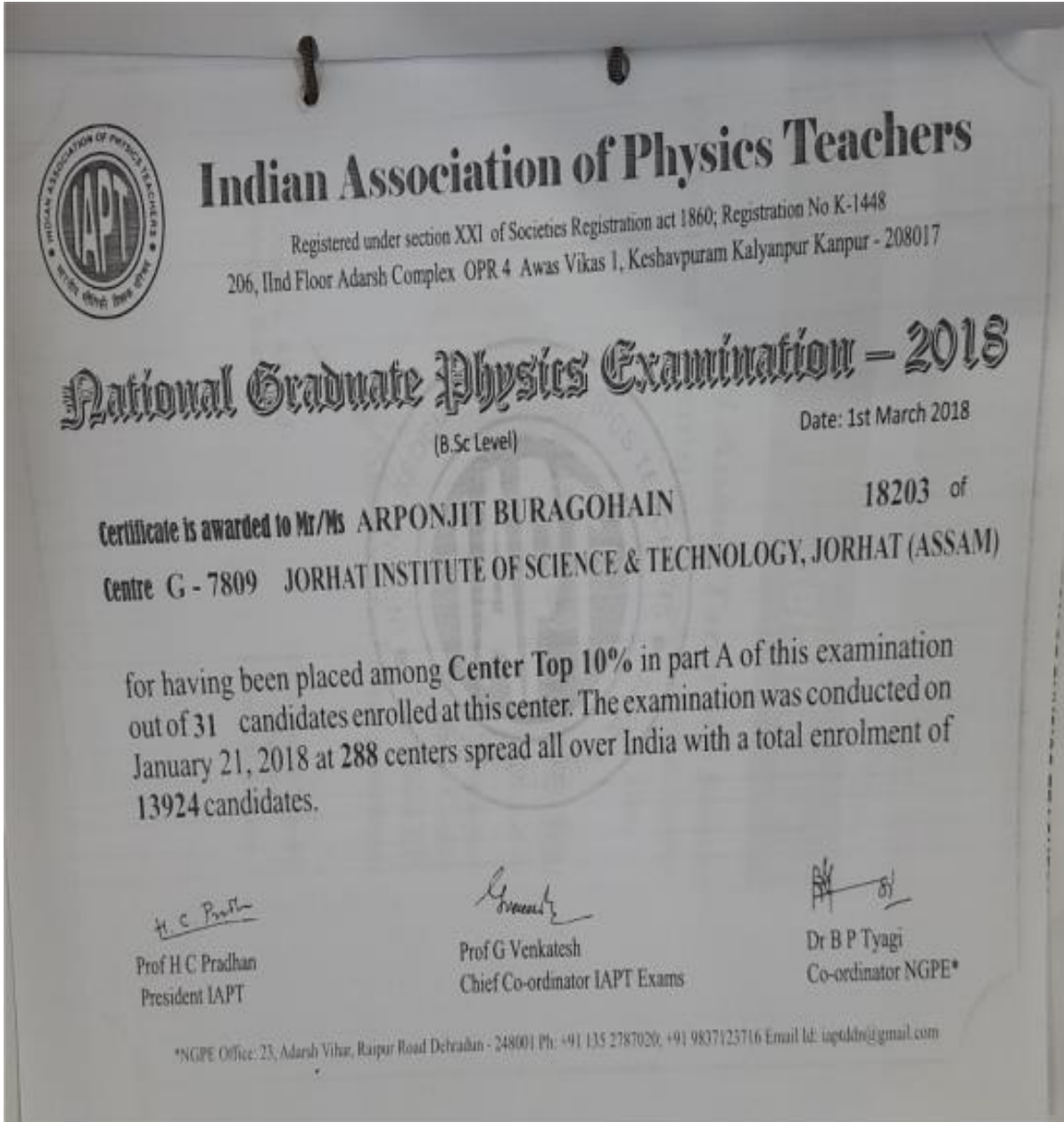


(Coordinator)
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Awards Won by Advanced Learners at Academic Events



By Student of Dept of Physics [Page 3]

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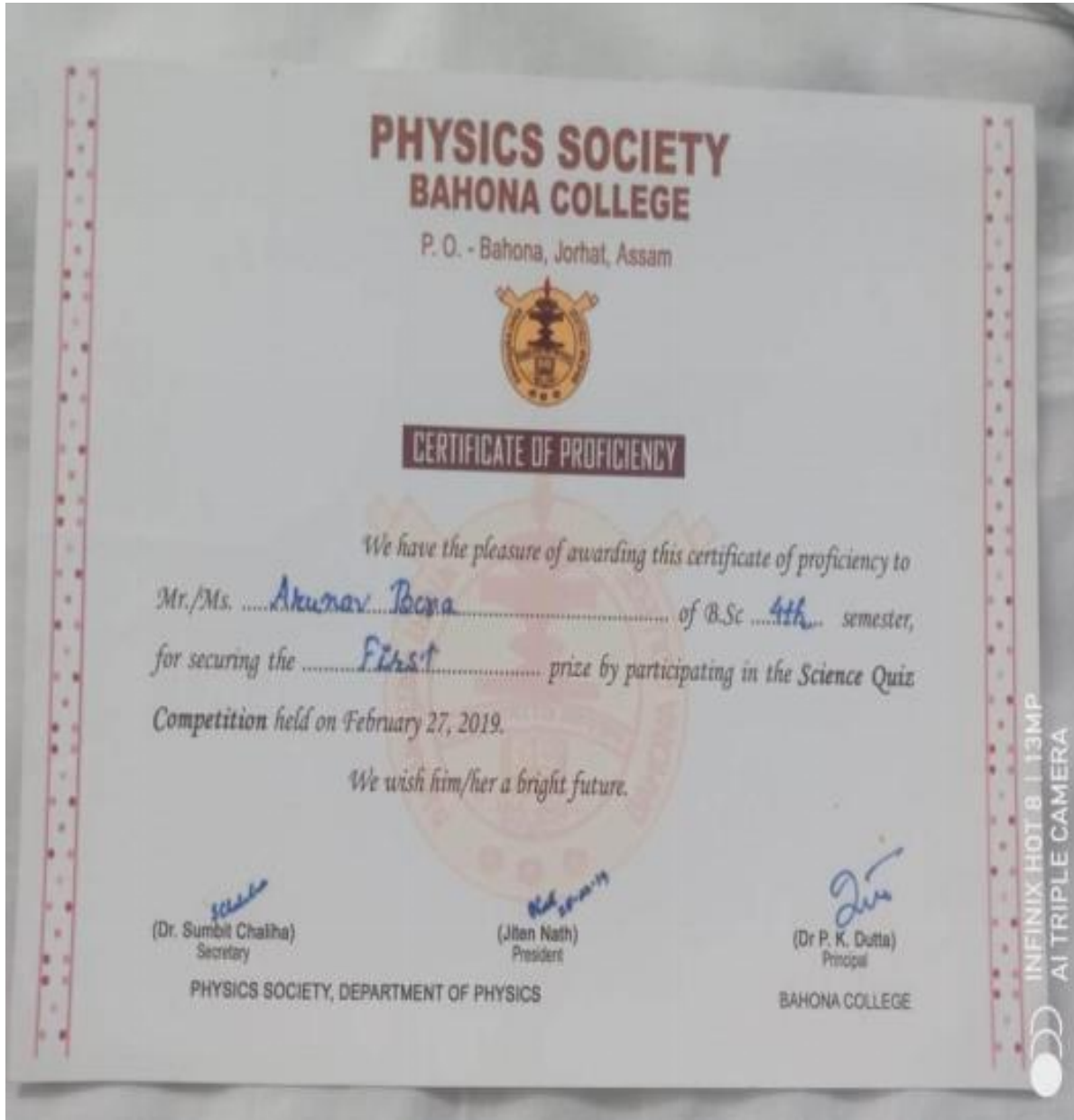


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Awards Won by Advanced Learners at Academic Events



By Student of Dept of Physics [Page 4]


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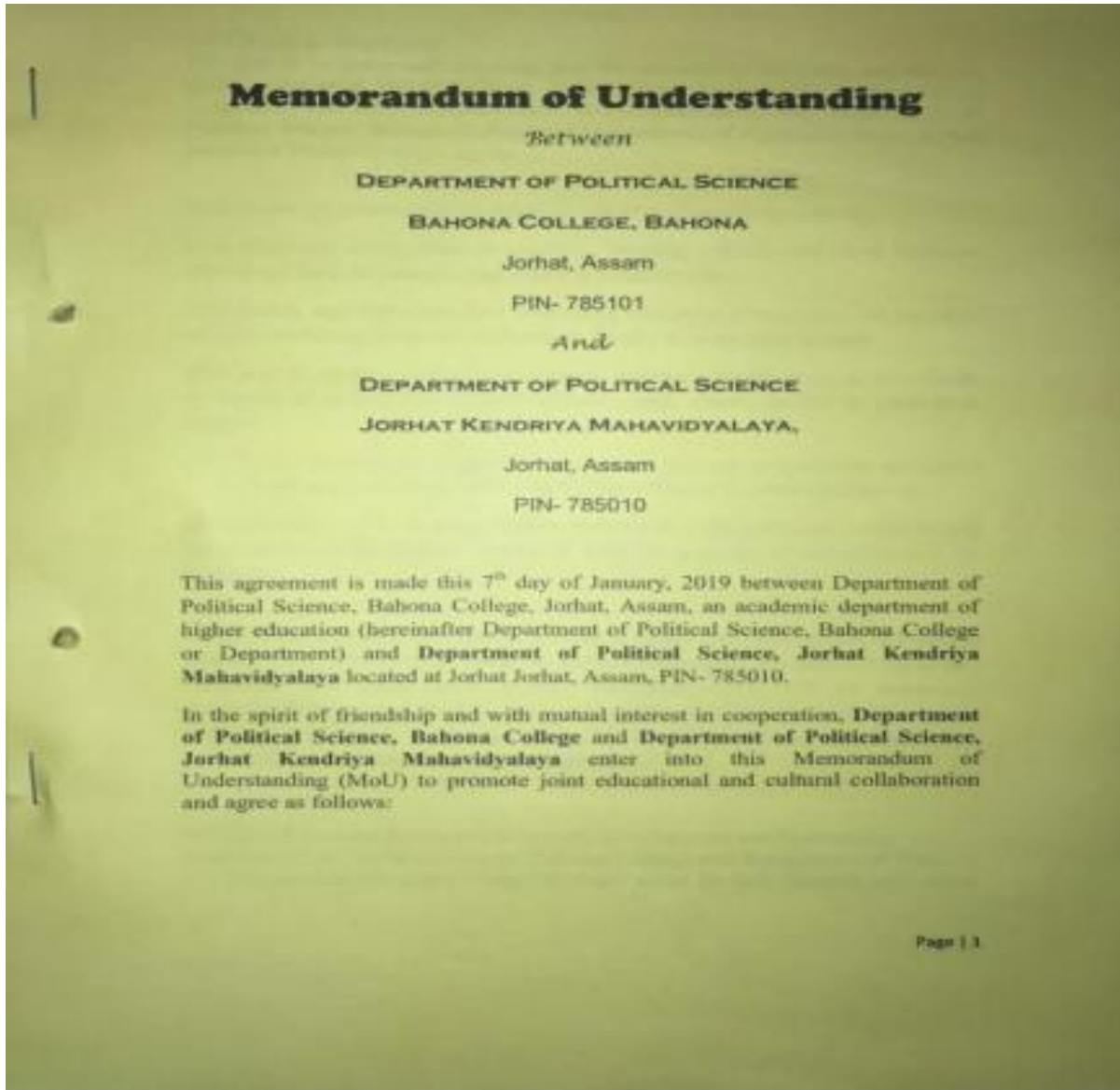



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**Sharing of Expertise and Resources, and Exchange of Teacher/Student with Other Institution
based on Memorandum of Understanding For Advanced Learning**



**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Jorhat
Kendriya Mahavidyalaya [Page 1]**


(Dr. P.K. Dutta)
Principal,
Bahona College




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ARTICLE 1: Objectives:

The goal is to foster collaboration, provide opportunity for local, national and global experience, and to facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions **Department of Political Science, Bahoma College and Department of Political Science, Jorhat Kendriya Mahavidyalaya** agree:

- a) to exchange information on research and educational programmes
- b) to exchange information on teaching, learning material and other literature relevant to their educational and research programmes
- c) to jointly organize short-term continuing education programmes on topics of mutual interest and to invite each other's faculty to participate therein
- d) to jointly organize lecture programmes, seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein
- e) to jointly propose and engage in research or training programmes sponsored by funding agencies, and to invite each other's faculty to participate therein
- f) to exchange, on a reciprocal basis, students at Undergraduate, Graduate and Doctoral levels for limited periods of time for purpose of education and /or research.

Department of Political Science, Bahoma College and Department of Political Science, Jorhat Kendriya Mahavidyalaya further agree that detailed terms and conditions that guide each activity identified above will be separately determined and agreed upon by the two institutions. These terms shall include a technical description of the proposed activity, financial arrangements, and person(s) responsible for its implementation, etc.

ARTICLE 2: Joint Sponsored Research, Development and Consulting:

Department of Political Science, Bahoma College and Department of Political Science, Jorhat Kendriya Mahavidyalaya agree to help identify and invite

Page | 2

**MoU between Dept of Political Science, Bahoma College and Dept of Political Science, Jorhat
Kendriya Mahavidyalaya [Page 2]**


(Dr. P.K. Dutta)
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faculty members from the other institution to participate in research or development programmes. The terms and conditions for such participation will be worked out by mutual agreement between **Department of Political Science, Bahona College** and **Department of Political Science, Jorhat Kendriya Mahavidyalaya**.

ARTICLE 3: Exchange of Faculty members:

Department of Political Science, Bahona College and **Department of Political Science, Jorhat Kendriya Mahavidyalaya** agree to encourage collaboration between faculty members from the two institutions. Specifically, institutions will encourage members of their faculties to undertake short visits to, or take up fixed-term visiting assignments at, each other's institution as per the existing norms. Terms and conditions for each visit or an assignment, including those concerning stipend, travel, and refreshment, name of the concerned faculty member will be worked out between **Department of Political Science, Bahona College** and **Department of Political Science, Jorhat Kendriya Mahavidyalaya**.

ARTICLE 4: Exchange of Students:

Department of Political Science, Bahona College and **Department of Political Science, Jorhat Kendriya Mahavidyalaya** agree that student exchange will be guided by principles listed below. A home institution refers to the institution where a student is a full-time student, and from where he/she is expected to graduate. A host institution refers to an institution that receives a student for a brief period of time to undertake a pre-determined programme of study, training, project work or research.

- a) Exchange students will be selected by mutual agreement between the home institution and the host institution.
- b) An exchange student will continue to be treated as full-time student at his/her home institution.
- c) An exchange student will be considered as full-time "exchange" student at the host institution.
- d) His/her programme of study at the host institution will be determined by mutual consultation between his/her mentor at the home institution and his/her "interim" mentor/academic advisor identified by the host institution.

Page | 3

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Jorhat
Kendriya Mahavidyalaya [Page 3]**


(Dr. P.K. Dutta)
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**Sharing of Expertise and Resources, and Exchange of Teacher/Student with Other Institution
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e) The host institution will evaluate an exchange student's performance in each course or module, award a letter grade or marks, and issue a letter to that effect.

f) The home institution may award to the exchange student credits earned at a host institution, but only after the home institution has established correspondence between courses taken at the host institution vis-a-vis those offered at the home institution.

g) **Department of Political Science, Bahona College and Department of Political Science, Jorhat Kendriya Mahavidyalaya** agree to provide suitable accommodation and living expenses for student exchange, if needed.

h) The exchange students will pay tuition and other fees at their home institution.

ARTICLE 5: Exchange of Technical Learning Material and Resources:

Department of Political Science, Bahona College and Department of Political Science, Jorhat Kendriya Mahavidyalaya will exchange information on research and educational programmes and teaching/learning material and other literature relevant to their educational and research programmes. Further, **Department of Political Science, Bahona College and Department of Political Science, Jorhat Kendriya Mahavidyalaya** agree to explore ways to share teaching/learning material, and other relevant literature, while respecting each other's intellectual property and other rights.

ARTICLE 6: Joint Conferences, workshops Lectures and short-term courses:

Department of Political Science, Bahona College and Department of Political Science, Jorhat Kendriya Mahavidyalaya agree to help identify and invite faculty members from the other institution to participate in conferences, workshops, Lectures and short-term courses. The terms and conditions for such participation will be worked out by mutual agreement between **Department of Political Science, Bahona College and Department of Political Science, Jorhat Kendriya Mahavidyalaya**.

ARTICLE 7: Co-ordination:

Each institution shall appoint one member of its teaching faculty to coordinate the programme on its behalf. Further, a coordination committee, consisting of
(a) HoD, Department of Political Science, Bahona College, or his/her nominee,

Page | 4

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Jorhat
Kendriya Mahavidyalaya [Page 4]**


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(b) HoD, Department of Political Science, Jorhat Kendriya Mahavidyalaya, or his/her nominee, (c) Programme coordinator from the side of Department of Political Science, Bahona College, and (d) Programme Coordinator from the side of Department of Political Science, Jorhat Kendriya Mahavidyalaya, will periodically review and identify ways to strengthen cooperation between the two institutions.

ARTICLE 8: Tenure and Termination:

This MoU will take effect from the date it is signed by representatives of the two institutions. It will remain valid for five years, and may be continued thereafter after suitable review and agreement. Either institution may terminate the MoU by giving written notice to the other institution six months in advance. Once terminated, neither Department of Political Science, Bahona College nor Department of Political Science, Jorhat Kendriya Mahavidyalaya will be responsible for any losses, financial or otherwise, which the other institutions may suffer. However, Department of Political Science, Bahona College and Department of Political Science, Jorhat Kendriya Mahavidyalaya will ensure that all activities in progress are allowed to complete successfully.

ARTICLE 9: Arbitration Clause:

Should there be a dispute relating to any aspect of academic cooperation, HoD, Department of Political Science, Bahona College and HoD, Department of Political Science, Jorhat Kendriya Mahavidyalaya will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.


(Sanjay Mili)

Head of the Department
Department of Political Science,
Bahona College
Department of Political Science,
Bahona College, Jorhat


(Dr. Ganes Ch. Borah)

Head of the Department
Department of Political Science,
Jorhat Kendriya Mahavidyalaya

Head, Deptt. of Pol. Science
Jorhat Kendriya Mahavidyalaya

Page | 5

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Jorhat
Kendriya Mahavidyalaya [Page 5]**


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MoU signed in presence of

1. Ranjit Pegu (Name) Assistant Prof. (Designation)
Ranjit Pegu (Signature)

2. Dr. Mridul Dutta (Name) Asst. Prof. (Designation)
Mridul Dutta (Signature)

3. DR. PANKAJ BORA (Name) ASSISTANT PROFESSOR (Designation)
Pankaj Bora (Signature)

4. Dr. Nanda Kumar Saha (Name) Asst. Prof. (Designation)
Nanda Kumar Saha (Signature)

5. Dr. Rasmita Sarkar (Name) Asst. Prof. (Designation)
Rasmita Sarkar (Signature)

6. _____ (Name) _____ (Designation)
_____ (Signature)

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Jorhat
Kendriya Mahavidyalaya [Page 6]**


(Dr. P.K. Dutta)
Principal,
Bahona College

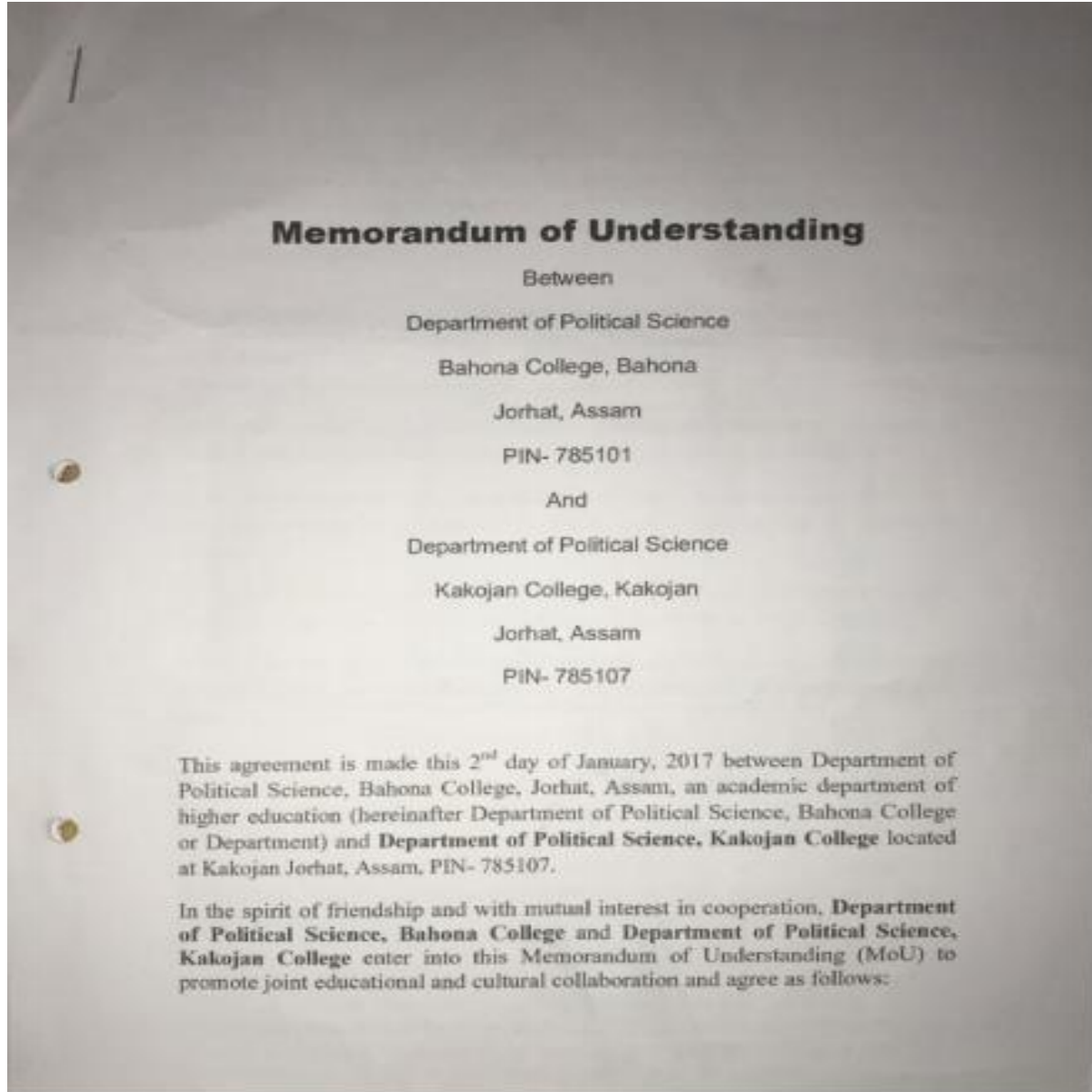



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MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 1]


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Principal,
Bahona College

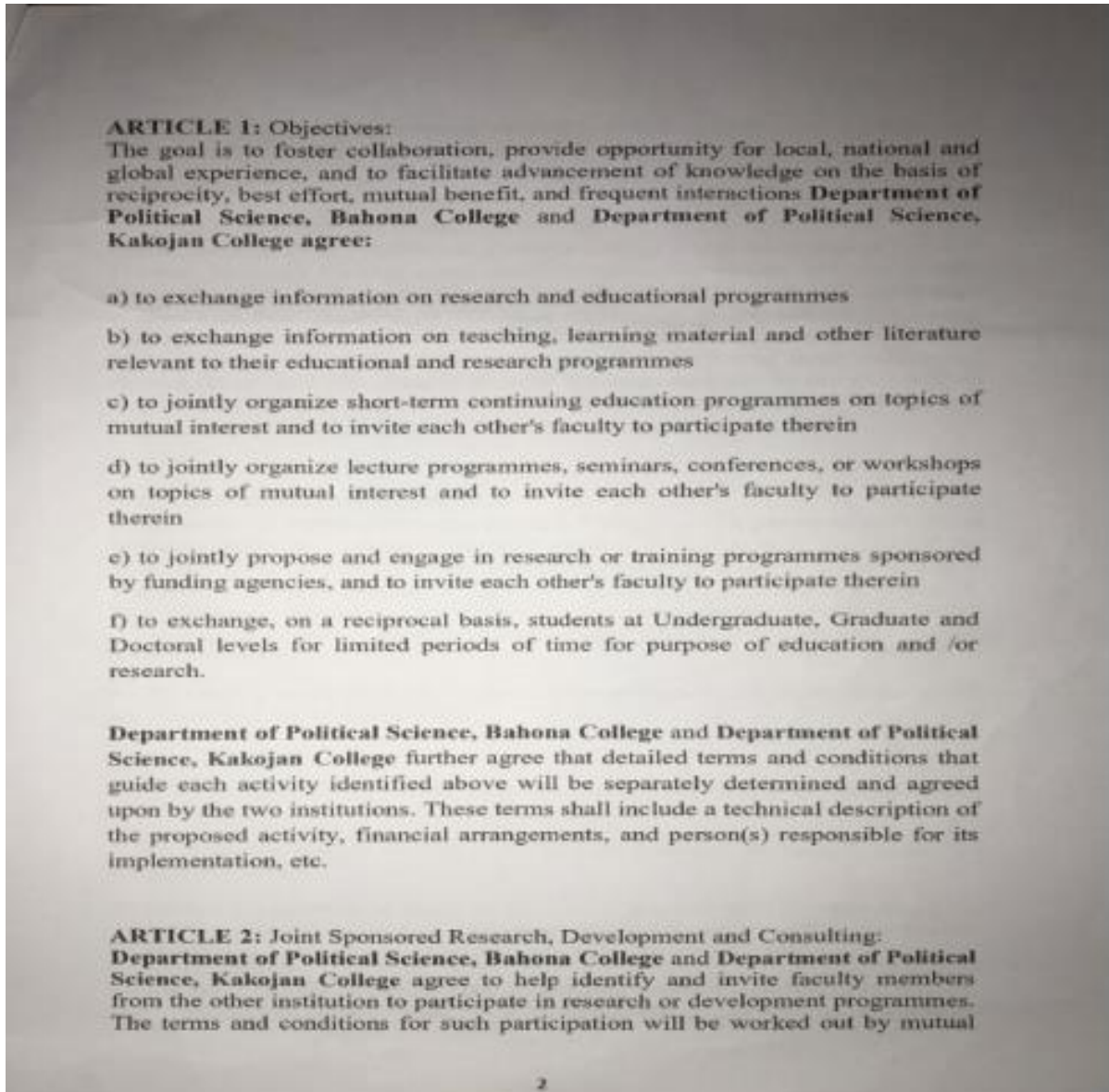



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MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 2]


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Pin-785101



BAHONA COLLEGE

বাহনা মহাবিদ্যালয়

Affiliated to Dibrugarh University

Sharing of Expertise and Resources, and Exchange of Teacher/Student with Other Institution based on Memorandum of Understanding For Advanced Learning

agreement between Department of Political Science, Bahona College and Department of Political Science, Kakojan College.

ARTICLE 3: Exchange of Faculty members:

Department of Political Science, Bahona College and Department of Political Science, Kakojan College agree to encourage collaboration between faculty members from the two institutions. Specifically, institutions will encourage members of their faculties to undertake short visits to, or take up fixed-term visiting assignments at, each other's institution as per the existing norms. Terms and conditions for each visit or an assignment, including those concerning stipend, travel, and refreshment, name of the concerned faculty member will be worked out between **Department of Political Science, Bahona College and Department of Political Science, Kakojan College.**

ARTICLE 4: Exchange of Students:

Department of Political Science, Bahona College and Department of Political Science, Kakojan College agree that student exchange will be guided by principles listed below. A home institution refers to the institution where a student is a full-time student, and from where he/she is expected to graduate. A host institution refers to an institution that receives a student for a brief period of time to undertake a pre-determined programme of study, training, project work or research.

- a) Exchange students will be selected by mutual agreement between the home institution and the host institution.
- b) An exchange student will continue to be treated as full-time student at his/her home institution.
- c) An exchange student will be considered as full-time "exchange" student at the host institution.
- d) His/her programme of study at the host institution will be determined by mutual consultation between his/her mentor at the home institution and his/her "interim" mentor/academic advisor identified by the host institution.
- e) The host institution will evaluate an exchange student's performance in each course or module, award a letter grade or marks, and issue a letter to that effect.

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MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 3]


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
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f) The home institution may award to the exchange student credits earned at a host institution, but only after the home institution has established correspondence between courses taken at the host institution vis-a-vis those offered at the home institution.

g) Department of Political Science, Bahoma College and Department of Political Science, Kakojan College agree to provide suitable accommodation and living expenses for student exchange, if needed.

h) The exchange students will pay tuition and other fees at their home institution.

ARTICLE 5: Exchange of Technical Learning Material and Resources:
Department of Political Science, Bahoma College and Department of Political Science, Kakojan College will exchange information on research and educational programmes and teaching/learning material and other literature relevant to their educational and research programmes. Further, Department of Political Science, Bahoma College and Department of Political Science, Kakojan College agree to explore ways to share teaching/learning material, and other relevant literature, while respecting each other's intellectual property and other rights.

ARTICLE 6: Joint Conferences, workshops Lectures and short-term courses:
Department of Political Science, Bahoma College and Department of Political Science, Kakojan College agree to help identify and invite faculty members from the other institution to participate in conferences, workshops, Lectures and short-term courses. The terms and conditions for such participation will be worked out by mutual agreement between Department of Political Science, Bahoma College and Department of Political Science, Kakojan College.

ARTICLE 7: Co-ordination:
Each institution shall appoint one member of its teaching faculty to coordinate the programme on its behalf. Further, a coordination committee, consisting of (a) HoD, Department of Political Science, Bahoma College, or his/her nominee, (b) HoD, Department of Political Science, Kakojan College, or his/her nominee, (c) Programme coordinator from the side of Department of Political Science, Bahoma College, and (d) Programme Coordinator from the side of Department of

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**MoU between Dept of Political Science, Bahoma College and Dept of Political Science, Kakojan
College [Page 4]**


(Dr. P.K. Dutta)
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Political Science, Kakojan College, will periodically review and identify ways to strengthen cooperation between the two institutions.

ARTICLE 8: Tenure and Termination:

This MoU will take effect from the date it is signed by representatives of the two institutions. It will remain valid for five years, and may be continued thereafter after suitable review and agreement. Either institution may terminate the MoU by giving written notice to the other institution six months in advance. Once terminated, neither **Department of Political Science, Bahona College** nor **Department of Political Science, Kakojan College** will be responsible for any losses, financial or otherwise, which the other institutions may suffer. However, **Department of Political Science, Bahona College** and **Department of Political Science, Kakojan College** will ensure that all activities in progress are allowed to complete successfully.

ARTICLE 9: Arbitration Clause:

Should there be a dispute relating to any aspect of academic cooperation, HoD, **Department of Political Science, Bahona College** and HoD, **Department of Political Science, Kakojan College** will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

(Sanjay Mili)
Head of the Department
Department of Political Science,
Bahona College

(Mridul Gogoi)
Head of the Department
Department of Political Science,
Kakojan College

MoU signed in presence of

1. Ranjit Pagar (Name) Asst. Professor (Designation)
on) [Signature] (Signature)

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan
College [Page 5]**

(Dr. P.K. Dutta)
Principal,
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2. Amarjyoti Dasmata (Name) Asstt. Prof. (Designation)
on) [Signature] (Signature)

3. Bubul Deka (Name) Asstt. Prof. (Designation)
on) [Signature] (Signature)

4. Dhrubayoti Saikia (Name) Assistant Prof. (Designation)
on) [Signature] (Signature)

5. Kelirod Saikia (Name) Asst. Prof. (Designation)
on) [Signature] (Signature)

6. Abhita Das (Name) Asstt. Prof. (Designation)
on) [Signature] (Signature)

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan
College [Page 6]**

[Signature]
(Dr. P.K. Dutta)
Principal,
Bahona College



[Signature]
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MEMORANDUM OF UNDERSTANDING

Between

DEPARTMENT OF POLITICAL SCIENCE

BAHONA COLLEGE, BAHONA

Jorhat, Assam

PIN- 785101

And

DEPARTMENT OF POLITICAL SCIENCE

B. N. COLLEGE, DHUBRI,

Dhubri, Assam

PIN- 783324

This MoU is signed on 7th day of June, 2021 between Department of Political Science, Bahona College, Jorhat, Assam, an academic department of higher education (hereinafter Department of Political Science, Bahona College or Department) and Department of Political Science, B. N. College, Dhubri, Dhubri located at Dhubri, Assam, PIN- 783324.

In the spirit of friendship and with mutual interest and cooperation, the Department of Political Science, Bahona College and the Department of Political Science, B. N. College, Dhubri enter into this Memorandum of Understanding (MoU) to promote joint academic collaboration and agreed as follows:

**MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N.College
[Page 1]**


(Dr. P.K. Dutta)
Principal,
Bahona College




Coordinator
IOAC
Bahona College, Jorhat
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ARTICLE I: Objectives:

The goal is to foster collaboration, provide opportunity for local, national and global experience, and to facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions **Department of Political Science, Bahona College** and Department of Political Science, B. N. College, Dhubri agree:

- a) to exchange information on research and educational programmes
- b) to exchange information on teaching and learning materials and other literature relevant to educational and research programmes
- c) to jointly organize short-term continuing educational programmes on topics of mutual interest and to invite each other's faculty to participate therein using online modes of teaching and learning
- d) to jointly organize online lecture programmes, seminars, conferences, or workshops on topics of mutual interest and to invite each other's faculty to participate therein
- e) to jointly propose and engage in research or training programmes sponsored by funding agencies, and to invite each other's faculty to participate therein using both online and offline mode.
- f) to online exchange, on a reciprocal basis, students at Undergraduate levels for limited periods of time for purpose of education and /or research.

Department of Political Science, Bahona College and Department of Political Science, B. N. College, Dhubri further agree that, the detail terms and conditions that guide each activity identified above will be separately determined and agreed upon by the two institutions. These terms shall include a technical description of the proposed activity, financial arrangements, and person(s) responsible for its implementation, etc.

MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N.College

[Page 2]


(Dr. P.K. Dutta)
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Bahona College




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ARTICLE 2: Joint Sponsored Research, Development and Consulting:

Department of Political Science, Bahona College and Department of Political Science, B. N. College, Dhubri agree to help identify and invite faculty members from the other institution to participate in research or development programmes.

The terms and conditions for such participation will be worked out on the basis of mutual agreement between **Department of Political Science, Bahona College** and Department of Political Science, B. N. College, Dhubri.

ARTICLE 3: Exchange of Faculty members:

Department of Political Science, Bahona College and Department of Political Science, B. N. College, Dhubri agree to encourage collaboration between faculty members from the two institutions. Specifically, institutions will encourage members of their faculties to undertake short visits to, or take up fixed-term visiting assignments at, each other's institution as per the existing norms. Online exchange of faculty members will take place at-least twice a year.

Terms and conditions for each visit or an assignment, including those concerning stipend, travel, and refreshment, name of the concerned faculty member will be worked out between **Department of Political Science, Bahona College** and Department of Political Science, B. N. College, Dhubri.

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MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N.College
[Page 3]


(Dr. P.K. Dutta)
Principal,
Bahona College

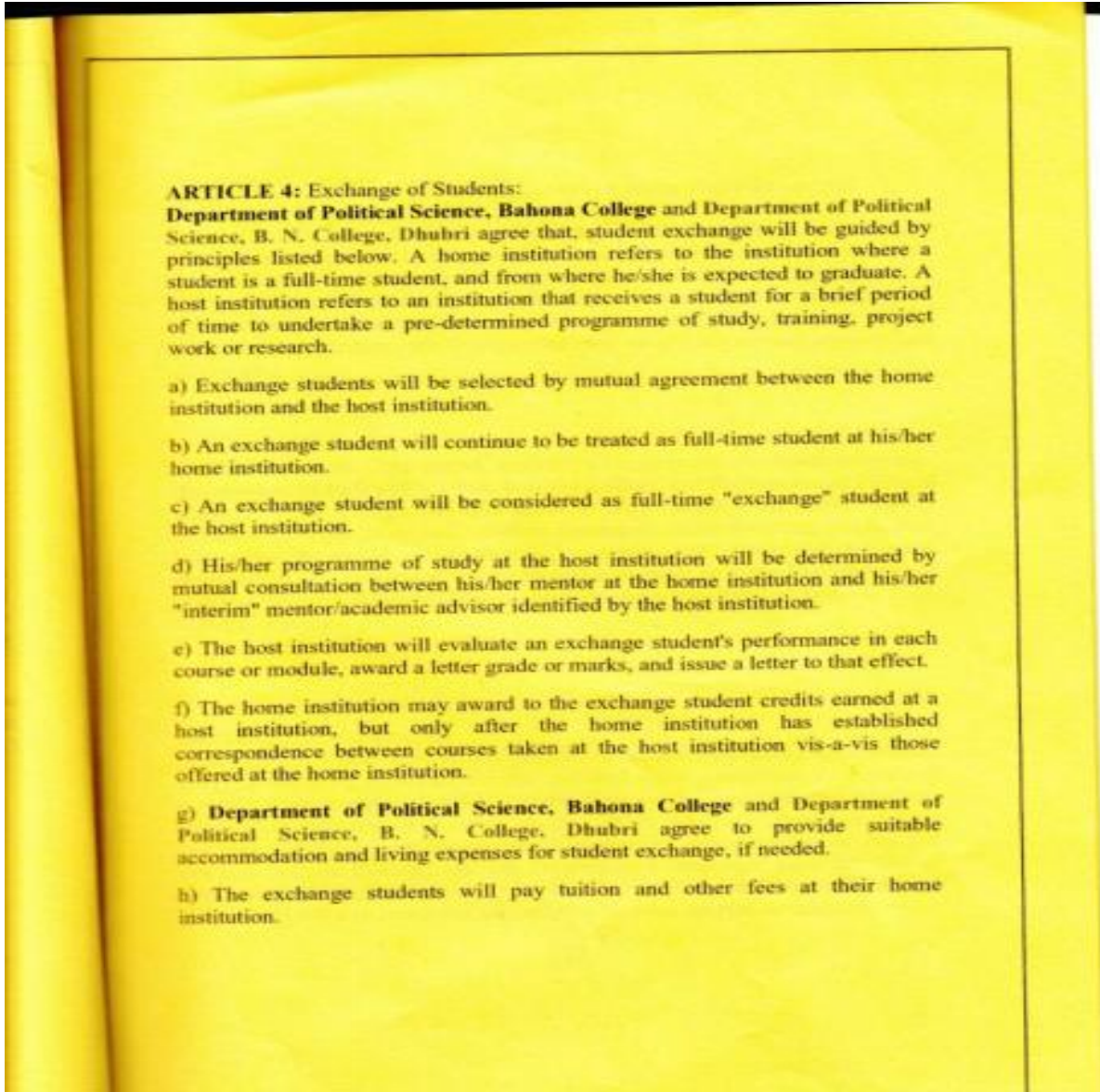



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MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N.College

[Page 4]


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ARTICLE 5: Exchange of Technical Learning Material and Resources:
Department of Political Science, Bahona College and Department of Political Science, B. N. College, Dhubri will exchange information on research and educational programmes and teaching/learning material and other literature relevant to their educational and research programmes. Further, **Department of Political Science, Bahona College** and Department of Political Science, B. N. College, Dhubri agree to explore ways to share teaching/learning material, and other relevant literature, while respecting each other's intellectual property and other rights.

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Department of Political Science, Bahona College and Department of Political Science, B. N. College, Dhubri agree to help identify and invite faculty members from the other institution to participate in conferences, workshops, Lectures and short-term courses. The terms and conditions for such participation will be worked out by mutual agreement between **Department of Political Science, Bahona College** and Department of Political Science, B. N. College, Dhubri.

ARTICLE 7: Co-ordination:
Each institution shall appoint one member of its teaching faculty to coordinate the programme on its behalf. Further, a coordination committee, consisting of (a) HoD, Department of Political Science, Bahona College, or his/her nominee, (b) HoD, Department of Political Science, B. N. College, Dhubri, or his/her nominee, (c) Programme coordinator from the side of Department of Political Science, Bahona College, and (d) Programme Coordinator from the side of Department of Political Science, B. N. College, Dhubri will periodically review and identify ways to strengthen cooperation between the two institutions.

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MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N.College
[Page 5]


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ARTICLE 9: Arbitration Clause:

In case of any dispute related to any aspect of academic cooperation, HoD, **Department of Political Science, Bahona College** and HoD, **Department of Political Science, B. N. College, Dhubri** will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

(Dr. Sanjay Mili)

Head of the Department
Department of Political Science,
Bahona College

(Dr. Rezibul Alom)

Head of the Department
Department of Political Science,
B. N. College, Dhubri
H.O.D
DEPTT OF POLITICAL SCIENCE
B.N.COLLEGE, DHUBRI.

(Dr. P. K. Dutta)

Principal
Bahona College
Principal
Bahona College

(Dr. Dhruba Chakraborty)

Principal
B. N. College, Dhubri
Principal,
B.N. College, Dhubri.

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MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N.College
[Page 6]

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Report for the Year: 2017-18

Activity: Teachers Exchange Programme

Date: 21st August, 2017

Brief Report: Department of Political Science, Bahona College organized the Teachers Exchange Programme with the Department of Political Science, Kakojan College. Anita Das, Assistant Professor, Kakojan College visited Bahona College on 21st August 2017 and delivered a talk on Gender Issues in India.

Total Student Present: 47



**Report of Activities Conducted in Accordance with the MoU between Dept of Political Science,
Bahona College and Dept of Political Science, Kakojan College [Page 1]**


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Report for the Year: 2018-19

Activity: Exposure Visits to the Assam Legislative Assembly

Date: 8th February, 2019

Brief Report: The student of Bahona College and Student of Kakojan College visited Assam Legislative Assembly on 8th February. The students of both the colleges started their journey on 7th February. The team of students of Bahona College was led by Dr. Pankaj Bora (Assistant Professor, Political Science) and Dr. Namita Saikia (Associate Professor, Assamese) and the student team of Kakojan College was led by Mridul Gogoi (Assistant Professor, Political Science) and Sarmistha Goswami (Assistant Professor, History). Both the teams stayed at the Guest House of Sankardev Kalashetra of Guwahati.

On 7th February, an open stage evening programme was conducted where students of both the colleges took part. Singing, Dancing, Mimicry etc. were performed by the students. On 8th February, students of both the colleges attended the budget session of the Assam Legislative Assembly. After attending the budget session, they visited the Conference Hall of the Assembly to interact with the Speaker of ALA, MLA of Teok, Parliamentary Affairs Ministers and Government officials of Assam Legislative Assembly. Students of Bahona College also visited the Assam Legislative Assembly Library. In the evening, the students visited the official residence of the Speaker of Assam Legislative Assembly (Hitendra Nath Goswami). On 9th February, students visited the Manimam Dewan Trade Centre and then returned to their home.

Photo: Enclosed.



Students Performing on Open Stage.



Official Residence of Speaker of Assam Legislative Assembly

Report of Activities Conducted in Accordance with the MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 2]


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**Report of Activities Conducted in Accordance with the MoU between Dept of Political Science,
Bahona College and Dept of Political Science, Kakojan College [Page 3]**


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Report for the Year: 2019-20

Activity: Students Exchange Programme, 2019

Date: 19th October, 2019

Brief Report:

Students of Bahona College visited Kakojan College as an initiative under Students Exchange Programme on 19th October 2019. Guest Faculty of Kakojan College D. Saikia delivered a lecture on Indian Constitution and politics. Students of both the departments shared light moments and discussed various issues related to politics, democracy, social movement etc.

Photo:



**Report of Activities Conducted in Accordance with the MoU between Dept of Political Science,
Bahona College and Dept of Political Science, Kakojan College [Page 4]**


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Report for the Year: 2020-21

Activity: Lecture by Visiting Faculty, 2021

Date: 30th November, 2021

Brief Report: Department of Political Science, Bahona College organized a talk on Political Economy of Nigeria as part of its MoU based activities with Department of Political Science, Kakojan College. Dr. Anita Das, Assistant Professor of Department of Political Science, Kakojan College delivered the lecture for 3rd Semester students of Bahona College Political Science Department. Dr. Sanjay Mili, HoD, Political Science, Ranjit Pegu, Assistant Professor of Department of Political Science and Dr. Mridul Dutta, Assistant Professor of Department of Political Science, Bahona College and students of other semesters were also present in the programme.

Photo:



Report of Activities Conducted in Accordance with the MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 5]


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Activity: Students Exchange Programme, 2021

Date: 13th December, 2021

Brief Report: 5th Semester students of Department of Political Science, Bahona College attended class at Kakojan College as part of its Students Exchange Programme. Dr. Mridul Dutta, Assistant Professor of Department of Political Science, Bahona College was the teacher in charge from Bahona College. In the Students Exchange Programme, 2021 Mridul Gogoi, Dr. Kshirud Saikia, Dr. Dhruba Saikia and Dr. Anita Das of Kakojan College took classes.




Signature of HoD
Political Science, Bahona College

Report of Activities Conducted in Accordance with the MoU between Dept of Political Science, Bahona College and Dept of Political Science, Kakojan College [Page 6]


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Report on
MoU Based Activities
With BN College, Dhubri

Name of the Activity:

Popular Talk

Topic:

**Sixth Schedule of the Indian Constitution:
Debates on the Autonomous Councils in Assam**

Organised By

The Department of Political Science, Bahona College, Jorhat

An initiative as a part of Memorandum of Understanding (MoU) signed with

The Department of Political Science, B.N. College, Dhubri, Assam

Date: 18th July, 2021

Time: 3.30pm – 4.30pm

Platform: Google meet

Report of Activities Conducted in Accordance with the MoU between Dept of Political Science,
Bahona College and Dept of Political Science, B.N. College [Page 1]


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An online popular talk on the topic "Sixth Schedule of the Indian Constitution: Debates on the Autonomous Councils in Assam" has been organised by the Department of Political Science, Bahona College, Jorhat on 18th July 2021 from 3.3.0 pm onwards. The programme is an initiative as a part of Memorandum of Understanding (MoU) signed between Department of Political Science, Bahona College with the Department of Political Science, B.N. College, Dhubri. The programme begins with a welcome address delivered by Dr. Pankaj Bora, Assistant Professor, Department of Political Science, Bahona College, Jorhat. Dr. Gautam Chandra Roy, Assistant Professor, Department of Political Science, B. N. College, Dhubri acted the Resource Person. In his lecture Dr. Roy dealt with the provision of the Sixth Schedule enshrined in the Indian Constitution and how the idea of autonomy has been implemented in Northeast India in general and Assam in particular and the issues involved therein. The lecture has been followed by an interaction session in which the participants asked various questions regarding the autonomy discourse in Assam. Around 100 participants including students from both the colleges, members of civil society organisations, faculty members of the Department of Political Science of both the institutions participated. Dr. Balin Hazarika, Former HoD, J.B. College, Jorhat and Visiting Faculty, Women University, Jorhat graced the occasion with his critical comments. Dr. Sanjay Mili, HoD, Department of Political Science, Bahona College, Jorhat offered the vote of thanks. The programme ended with a closing remark put forwarded by Dr. Pankaj Bora.

**Report of Activities Conducted in Accordance with the MoU between Dept of Political Science,
Bahona College and Dept of Political Science, B.N. College [Page 2]**


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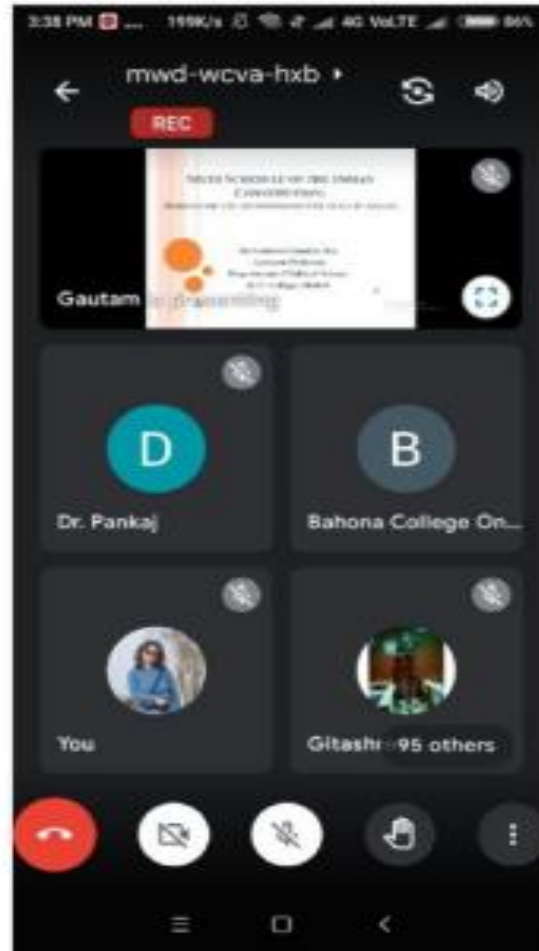
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Flyer of the Programme



Screenshots of the Programme



Screenshots of the Programme

Report of Activities Conducted in Accordance with the MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N. College [Page 3]


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Report of Activities Conducted in Accordance with the MoU between Dept of Political Science, Bahona College and Dept of Political Science, B.N. College [Page 4]


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