DOCUMENTS RELATING TO SESSIONAL EXAMINARIONS, UNIT TESTS, HOME ASSIGNMENTS, CLASS SEMINAR, Etc.

Department of Chemistry

Sessional Examination- 2022

B.Sc. 1st Semester

Sub : Chemistry(Hon)   Paper: CHE-HE-3026

Full marks : 30   Time : 1Hour

1. Draw the Maxwell distribution of molecular velocity curves at different temperatures. Also write the important feature of this curves   2+2=4

2. Calculate the vibrational degree of freedom of H_2O and CO_2 .   2

3. Find the expression of average velocity with the help of Maxwell distribution law .   4

4. Calculate the rms speed of N_2 gas at 270 C and 70 cm pressure.(Given density of Hg = 13.6 g/cm^3) .   3

5. Calculate the Miller Indices of crystal phases which cut through the crystal axis at
    i)   (2a, 3b, c)   ii) (2a, -3b, -3c)   2

6   Calculate the number of atoms in per unit cell of fcc lattice.   2

7   Write the short notes on Radius Ratio.   3

8   The dissociation constant of Formic acid and Acetic acid are respectively 1.77×10^{-4} and 1.75×10^{-5} . Calculate the relative strength of two acids.   3

9. Calculate the p^H of solution obtained by mixing of 50 ml 0.2 M HCl with 50 ml 0.1 M NaOH. 3

10. Calculate KH for a salt of weak acid and strong base . Also establish a relationship among K_H , K_a and K_w for the same salt.   2+2=4

....

Principal I/c & Secretary
Barbhag College

Name of Students... Bhargab Jyoti kalita ... Roll No.... 45

1. হাইড্ৰজেন বৰ্ণালীৰ ব্যাখ্যা কোনটো তত্ত্বই আগবঢ়াব পাৰে ?
   a) ডেল্টনৰ পৰমানু তত্ত্ব   b) ৰাডাৰফৰ্ডৰ আৰ্হি   c) ব'ৰৰ তত্ত্ব   d) ডাৰ্গলিৰ প্ৰকল্প

2. হাইড্ৰজেন বৰ্ণালীৰ থকা শ্ৰেণীৰ সংখ্যা
   a) 4 টা   b) 5 টা   c) 2 টা   d) 6 টা

3. বামাৰ শ্ৰেণীক পোৱা হাইড্ৰজেন বৰ্ণালীৰ অংশ হ'ল-
   a) অৱলোহিত (IR)   b) অতিবেঙুনীয়া (UV)   c) দৃশ্যমান (Visible)   d) বৰ্ণালীৰ বাহিৰৰ অংশ

4. ৰিডবাৰ্গৰ ধ্ৰুবকৰ মান -
   a) $1.3561 \times 10^8 m^{-1}$ b) $2.5677 \times 10^5 m^{-1}$ c) $4.2121 \times 10^{-5} m^{-1}$ d) $1.0967 \times 10^7 m^{-1}$

5. ব'ৰ তত্ত্বটো প্ৰযোজ্য
   a) 2 টা ইলেকট্ৰনযুক্ত তন্ত্ৰ বাবে   b) 1 টা ইলেকট্ৰনযুক্ত তন্ত্ৰ বাবে   c) 4 টা   d) 3 টা

6. ব'ৰৰ আৰ্হিৰ বাবে 1 নং কক্ষপথত থকা ইলেকট্ৰনৰ বাবে হাইড্ৰজেন পৰমানুৰ ব্যাসাৰ্ধ
   a) 53 pm   b) 5.3 cm   c) 0.29 m   d) 6.9 pm

7. চুম্বকীয় (Magnetic) ক্ষেত্ৰত হাইড্ৰজেন বৰ্ণালীৰ বেখা বিভক্ত হোৱা পৰিঘটনাৰ নাম-
   a) ষ্টাৰ্ক পৰিঘটনা   b) আলোক বিদ্যুৎ পৰিঘটনা   c) জিমান পৰিঘটনা   d) বিদ্যুৎ চুম্বকীয় প্ৰৱেশ

8. গতিশীল কনা এটাৰ সৈতে জড়ি তৰংগ দৈৰ্ঘ্যক
   a) দ্বৈত তৰংগ দৈৰ্ঘ্য   b) দ্য ব্ৰগলিৰ তৰংগ দৈৰ্ঘ্য   c) প্লাংকৰ তৰংগ দৈৰ্ঘ্য   d) হাইড্ৰজেনবাৰ্গৰ তৰংগ দৈৰ্ঘ্য

9. বৰ্ণ লেণ্ডে সমীকৰণ ব্যৱহাৰ কৰা হয়-
   a) সহযোজী যোগৰ বিয়োজন শক্তিৰ বাবে   b) আয়নীকৰণ শক্তি নিৰ্ণয়ৰ বাবে (UV)
   c) আয়নীয় যৌগৰ লেটিচ শক্তি নিৰ্ণয়ৰ বাবে   d) ইলেকট্ৰড বিভৱ নিৰ্ণয়ৰ বাবে

10. কোনটোৰ গলনাংক আটাইতকৈ বেছি ?
    a) NaCl   b) NaF   c) NaI   d) Na Br

11. SI এককত ID (ডিবাইৰ) মান
    a) 3.335×10^{-30} cm   b) 2.165×10^{-25} Cm
    c) 4.216×10^{-21} Cm   d) 1.027×10^{-19} Cm

12. কোনটো অনু ধ্ৰুৱীয় নহয় ?
    a) NH_3 b) H_2O c) HCl   d) CH_4

13. আয়নীয় যৌগৰ সহযোজী ধৰ্ম নিৰূপনৰ কোনটো বিধি বা নিয়ম প্ৰয়োগ কৰা হয় ?
    a) হুণ্ডৰ নিয়ম   b) বৰ্ণ হেৱাৰৰ নীতি   c) হুকেলৰ নীতি   d) ফাজানৰ নিয়ম

14. মিথেন (CH_4) ত H-C-H বান্ধনি কোনৰ পৰিমান-
    a) 120^0 b) 107^0 c) 104^0 d) $109^028'$

15. এলকেনে কোনটো সমযোজিতা দেখুৱায় ?
    a) অৱস্থান সমযোজিতা   b) শৃংখল সমযোজিতা   c) জ্যামিতিয় সমযোজিতা   d) আলোকীয় সমযোজিতা

16. $C_2H_4Br_2$ আনবিক সংকেত বিশিষ্ট গঠন সমযোগীৰ সংখ্যা-
    a) 1   b) 2   c) 3   d) 4

17. কাৰ্বক্সিলিক এচিডৰ ছডিয়াম লৱন (RCOONa) সৈতে চডালাইম (NaOH +CaO) উত্তপ্ত কৰিলে কি উৎপন্ন হয় ?
    a) এলকেন   b) এলকহ'ল   c) এলকিন   d) এলডিহাইড

18. 3 - মিথাইল বিউট- 1 ইনৰ গঠন-
    a) $CH_2 = CH-CH -CH_3$, CH_3
    b) $CH_3 - CH= CH -CH_3$
    c) $CH_2 = CH-CH_2 -CH_3$
    d) $CH_2 = CH-CH_2 -CH_3$

19. এলকেনৰ হেলোজেনেশ্যন (Halogenation) বিক্ৰিয়াত হেল'জেনবোৰৰ সক্ৰিয়তাৰ ক্ৰম-
    a) $Cl_2 > F_2 > I_2 > Br_2$
    b) $F_2 > Cl_2 > Br_2 > I_2$
    c) $I_2 > Br_2 > Cl_2 > F_2$
    d) $Br_2 > I_2 > F_2 > Cl_2$

20. তলৰ কোনটোক উৰ্জৰ বিক্ৰিয়া বুলি কোৱা হয় ?

    a) $CH_3CH_2I + HI \xrightarrow{\text{ৰঙা P}} CH_3CH_3 +I_2$

    b) $CH_3Br + 2Li \xrightarrow{\text{শুকান ইথাৰ}} CH_3 Li + LiBr$

    c) $2RX + 2Na \xrightarrow{\text{শুকান ইথাৰ}} R - R + 2 NaX$

    d) $CH_4 +Cl_2 \xrightarrow{\text{পোহৰ}} CH_3 Cl + Hcl$

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Full

1.

i)

ii)

iii)

iv)

2.

3.

4.

5.

6.

7.

8.

9.

MARKS FOIL COPY

Sessional Examination Examination 22

Barbhag College, Kalag

Sub:- Chemistry (H)   Paper:- CHE-HE-5056

Roll	No.	Mark	Roll	No.	Mark	Roll	No.	Mark
US-201 -191	0001	14						
	0006	18						
	0008	15						
	0009	16						
	0010	14						
	0014	15						
	0015	16						
	0020	16						
	0021	17						
	0022	16						

Signature of Principal   Sign.of Dept. Head

Principal I/c & Secretary
Barbhag College

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Sessional .... Examination 2 L

Barbhag College, Kalag

Sub:- Chemistry (Gen)   Paper:- CHE-RE-5056

Roll	No.	Mark	Roll	No.	Mark	Roll	No.	Mark
US-201	0023	15	US-201	0033	14			
-191	0025	12	-191					
	0026	13						
	0027	14						
	0028	16						
	0030	15						
	0031	14						
	0032	13						
	0034	12						
	0035	17						
	0036	14						
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	0048	16						
	0049	13						
	0050	15						
	0051	13						
	0052	12						
	0054	16						
	0055	13						
	0056	15						
	0057	15						

Signature of Principal   Sign.of Dept. Head

06/

HOME ASSIGNMENT

Topic — Entropy

Name: Chandrama Talukdar
Sub: Chemistry Assignment
Class: B.Sc. 2nd semester
Class Roll NO: 38
Exam Roll NO: US-211-191-0009

Session- 2021-22

ml 23/4/22

Home Assignment

Topic - Entropy   06

B.Sc 2nd Semester (CBCS)

Name: Nabadeep Lahkar.

Sub: Physical chemistry

Class Roll no: 34

Exam Roll no: US-211-191-0021

Reg. No: 210 23050

Session - 2021- 22

23/4/22

Department of Physics

Total Marks: 15

Time: 40 Mins

1. Answer the following questions: 1x3=3

a) Define dot product of two vectors.

b) What do you mean by gravitational potential?

c) What is the dimension of Poisson's Ratio?

2) Answer the following questions: 2x2=4

a) A wire 0.5 m long and 1 sq mm in cross section has Young's modulus 1.24 x 10^{11} N m^{-2}. How much work is done in stretching it through 1mm?

b) A force $\vec{F} = -\hat{I} + 3\hat{J} + 4\hat{k}$ is acting at a point $5\hat{I} + 4\hat{J} + 3\hat{K}$. Obtain the moment of the force about the origin.

3) State the law of Gravitational attraction and hence define the Gravitational constant.   3

4) If Y,K and σ represent Young's Modulus , Bulk modulus and Poisson's Ratio respectively, Then prove that K= $\frac{Y}{3(1-2\sigma)}$.   5

Total Marks: 15

Time: 40 Mins

1. Answer the following questions: 1x3=3

a) Define spring constant.

b) In Young's double slit experiment if D gets doubled what happens to the fringe width?

c) State the necessary condition to observe the phenomenon of diffraction?

2) Answer the following questions: 2x2=4

a) Write down two characteristics of S.H.M .

b) Explain the nature of Newton's rings observed with white light.

3) Determine the expression for linear width of central maxima in the diffraction pattern due to a single slit.   3

4) What is Stoke's Law for the phase change of reflection? Show that a phase change of π occurs when the reflection takes place at the surface of a denser medium.   5

Sessional Examination'21
B. Sc. 1st semester.21

PHYSICS
Phy—HG/RC—1016

Marks: 30   Time: 1 hour

The figures in the margin indicate full marks for the questions:

1. উত্তৰ দিয়া অতি সংক্ষেপে তলৰ উত্তৰ দিয়া

Answer the following questions very shortly :   1×5 = ⑤

(i) Define cross (~~vector~~) product of two vectors.

(ii) Give the example of 2nd order & 2nd degree of a differential equation.

(iii) Write down the physical significance of cross product of two vectors.

(iv) What do you mean by simple harmonic motion?

(v) State the Kepler's third law :

2. Answer the following questions   2×5 = ⑩

(a) Write down the postulates of special relativity theory.

(b) Construct the differential equation of a SHM.

(c) Find the general solution of 1st order homogeneous differential equation.

(d) If $\vec{A} = 5\hat{i} - 7\hat{j} + 3\hat{k}$ and $\vec{B} = 6\hat{i} + 4\hat{j} - 2\hat{k}$ what is $\vec{A} \times \vec{B}$ and $\vec{A} . \vec{B}$?

(e) $y = \dfrac{dy}{dx} + \sqrt{1 + \left(\dfrac{dy}{dx}\right)^2}$, find out the order and degree from above equation.

T.O.

Rinmji

Principal I/c & Secretary
Barbhag College

Sessional Examination '21

B.Sc. 3rd sem

PHYSICS

phy — HG/RC - 3016   Time : 60 min.

Marks : 30

The figures in the margin indicate full marks
for the questions. $1 \times 5 = 5$

1. Give the short answers.

(a) state the 1st law of thermodynamics

(b) Define only carnot's cycle and carnot's theorem

(c) Write down the four thermodynamical potential,

(d) state the Newtons law of cooling

(e) Give the numerical value of solar constant.

2. Answer the following questions. $5 \times 5 = 25$

(i) State the relation
$$G = H + T \left(\frac{\partial G}{\partial T} \right)_P$$ i's a relation
of Enthalpy and Gibb's potential

(ii) state and explain the mean free path
on the basis of Einstein - Maxwell's concept

(iii) Give the relation between Entropy and
Probability additive nature.

(iv) State the Maxwell's thermodynamical
relations.

(v) Explain the Maxwell's deduction of th. value
of the co-efficient of viscosity,

Sessional Examination '22
B. Sc. 6th semester.

Physics

Marks 30   PHY-RE-6056   Time: 60 min.

The figures in the margin indicate full marks for the questions.

1. Answer the following questions shortly   2×5=10

   (a) What do you mean by length contraction

   (b) Give the expression of Time dilation.

   (c) State and explain the relativistic Mass.

   (d) State the postulates of special theory of Relativity

   (e) What do you mean by Relativity of simultaneity

2. Answer the following questions.   4×5=2

   (i) Give the expression of acceleration of a partic of mass 'm' in uniform Electric field.

   (ii) State and Explain the principle of vertical work.

   (iii) Distinguish between the stable and unstable equilibrium system of an oscillating particle

   (iv) Explain the relativistic term Minkowski spac

MARK SHEET
BARBHAG COLLEGE
Sessional Examination 2021

Class Bsc. 3rd Sem.

Subject Physics   Paper PHY-HG/RC-3016

Name of the Examiner Lakshi Nath Choudhury

Roll Nos	Marks	Roll Nos	Marks, ,	Roll Nos	Marks	Roll Nos	Marks
US-201-191							
0005	10						
0006	07						
0007	10						
0013	09						
0014	10						
0041	09						
0053	07						

No. of Script. 07

Head of the Deptt. of Physics
Barbhag College, Nalbari (Assam)

Sig. of Examiner

Principal I/c & Secretary
Barbhag College

MARK SHEET
BARBHAG COLLEGE
Examination 20 22

Class BSc. 2nd Sem.

Subject Physics   Paper PHY – HG/RC – 2016

Name of the Examiner Pulama Jaluhdi

Roll Nos	Marks	Roll Nos	Marks, ,	Roll Nos	Marks	Roll Nos	Marks
US-211-191-							
0001	08						
0005	05						
0013	07						
0014	09						
0015	10						
0016	09						
0018	07						
0022	10						
0027	10						
0030	06						

No. of Script (10)

Sig. of Examiner

Head of the Deptt. of Physics
Barbhag College, Nalbari (Assam)

Principal I/c & Secretary
Barbhag College

MARK SHEET
BARBHAG COLLEGE
Sessional Examination 20 22

Class BSc 4th Sem.

Subject Physics   Paper PHY - H4/ RC - 4016

Name of the Examiner Mahananda Pathak

Roll Nos	Marks	Roll Nos	Marks, ,	Roll Nos	Marks	Roll Nos	Marks
US-201-191							
0005	10						
0006	10						
0007	10						
0013	10						
0014	10						
0041	08						
0053	08						

Sig. of Examiner

No of Script 07

Head of the Dept. of Physics
Barbhag College, Nalbari (Assam)

Principal I/c & Secretary
Barbhag College

Home Assignment

Physics

(A)

Name – Nabajyoti Deka
Roll no – US-211-191-0022
Regn. no – 21068007
class – BSc. 1st semester
Year – 2021-22

2

Home Assignment

Name: Koushik Deka

Roll No.: US-211-191-0018

Reg. No.: 21068004

Class : BSc. 2nd Sem.

Subject: Physics (HG)

Year : 2021-22

(A)

Home Assignment

Name - Jubin Kumar Sarma

Roll no - US - 211 - 191 - 0015

Regn. no - 21068001

class — BSc. 2nd semester.

Sub: - Physics

Session —— 2021-22
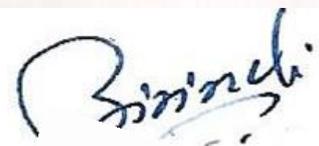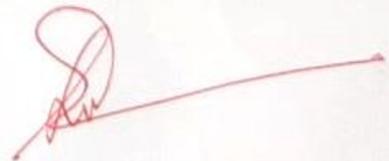
Department of Political Science

Time: 1 hour   Full marks: 20

১) যিকোনো এটা প্ৰশ্নৰ উত্তৰ লিখা। ১× ১০

ক) প্ৰাচীন ভাৰতত ধৰ্মৰ মাজেদি মানৱ অধিকাৰৰ ধাৰণা কেনেদৰে প্ৰকাশ পাইছিল আলোচনা কৰা।

খ) ৰাষ্ট্ৰীয় মানৱ অধিকাৰ আয়োগৰ গঠন, ক্ষমতা আৰু কাৰ্য আলোচনা কৰা।

গ) সশস্ত্ৰ বাহিনী বিশেষ ক্ষমতা (AFSPA) আইনখনৰ ইতিহাস আৰু ইয়াৰ মূল ব্যৱস্থা সমূহ বিশ্লেষণ কৰা।

৪) চমু টোকা লিখা (যিকোনো এটা) ১× ৫=৫

(ক) কমনৱেলথ অৱ ইণ্ডিয়া বিল, ১৯২৫

(ক) ৰাষ্ট্ৰীয় মহিলা আয়োগ

(গ) নৰ্মদা বচাও আন্দোলন

(ঘ) ৰাজ্যিক মানৱ অধিকাৰ আয়োগ

৫) যিকোনো দুটা প্ৰশ্নৰ উত্তৰ লিখা ২× ২=৪

ক) মানৱ অধিকাৰ আইনৰ যিকোনো দুটা ব্যৱস্থা উল্লেখ কৰা।

খ) ভাৰতীয় সংবিধানৰ মানৱ অধিকাৰ বুলিলে কি বুজা?

গ) উত্তৰ পূব ভাৰতত সন্ত্ৰাসবাদী কাৰ্যকলাপ উত্তৰৰ দুটা কাৰণ উল্লেখ কৰা।

ঘ) চিপকো আন্দোলনৰ সৈতে জড়িত দুগৰা কী উল্লেখযোগ্য ব্যক্তিৰ নাম লিখা। ২

৭) ৰাষ্ট্ৰীয় সংখ্যালঘু আয়োগ কিমান চনত গঠন হৈছিল? ১

(খ) লোক প্ৰশাসনৰ প্ৰকৃতি

(গ) ওৱেবাৰৰ আমোলাতন্ত্ৰৰ বৈশিষ্ট্য

৪) লোক প্ৰশাসনৰ পৰিসৰ আলোচনা কৰা। 10

অথবা

বৈজ্ঞানিক পৰিচালনাৰ ধাৰণাটো আলোচনা কৰা। 10

অথবা

হেনৰী ফেয়লৰ প্ৰশাসনৰ ধাৰণাটো আলোচনা কৰা। 10

× × × × × ×

Mark Sheet
Barbhag College, Kalag
Sessional Examination, 20.22

Subject: Political Science (Honours)   Class: B.A. 2nd Semester

Name of Examiner: Dr. Dhaneswar Baishya   Paper: PoL-1tc - 2016

Roll No.	Marks	Roll No.	Marks	Roll No.	Marks	Roll No.	Marks
0002	09						
0009	06						
0013	13						
0016	08						
0021	06						
0025	07						
0027	13						
0029	07						
0032	14						
0033	10						
0047	10						
0048	12						
0051	09						
0053	06						
0055	09						
0059	09						
0066	07						
0087	10						
0098	07						
0102	07						
0111	06						
0112	14						
0113	01						
0119	10						
0123	08						
0124	09						
0126	08						

No of Scripts. 27

Signature of Examiner

Principal I/c & Secretary
Barbhag College

Mark Sheet
Barbhag College, Kalag
Sessional Examination, 2022

Subject: Political Science

Name of Examiner: N. Malakar

Class: 4th Semester (H/G

Paper: POL-R/c-H/G-4016

Roll No	Marks	Roll No.	Marks	Roll No.	Marks	Roll No	Marks
0002	11	0145	06	0204	08		
0004	07	0146	06	0206	11		
0005	15	0149	10	0208	10		
0008	14	0150	12	0211	05		
0009	18	0151	10	0212	09		
0014	13	0152	07	0214	06		
0015	06	0154	08	0217	07		
0016	12	0156	08	0219	06		
0020	15	0158	07	0221	09		
0034	17	0159	03	0222	13		
0037	06	0162	08	0224	08		
0039	06	0163	07	0227	07		
0042	14	0164	09	0228	08		
0045	06	0165	06	0229	09		
0049	14	0166	09	0231	07		
0052	08	0167	09	0233	10		
0053	16	0171	10	0234	11		
0062	15	0172	07	0236	05		
0063	07	0178	06	0238	09		
0071	13	0180	09				
0085	07	0183	06				
0089	11	0184	07				
0103	12	0185	11				
*0102	11	0186	11				
0112	09	0187	10				
0114	16	0189	11				
0120	11	0191	11				
0127	10	0192	08				
*0118	15	0193	10				
0129	11	0194	10				
0135	06	0195	08				
0136	07	0197	09				
0139	09	0200	10				
0140	07	0201	09				
0141	09	0203	10				

No of Scripts: 89

Signature of Examiner

09/08/2022

Principal I/c & Secretary
Barbhag College

HOME ASSIGNMENT

TOPICS: লোক প্ৰশাসনৰ প্ৰকৃতি আৰু পৰিসৰৰ আলোচনা কৰা। (1)

Submitted by: Sanjay Das

ROLL NO : 133

Subject : Political Science (Hₐ)

Class : B.A 5th semester

G.U. ROLL NO : UA-191-191-0108

Registration N⁰: 19067990

Paper — POL RE 5016

Principal I/c & Secretary
Barbhag College

BARBHAG COLLAGE

HOME ASSIGNMENT

05   RC

প্ৰকল্প- নাগৰিক সমাজৰ বিকাশ আৰু প্ৰধান কাৰ্য

বিষয়- ৰাজনীতি বিজ্ঞান

নাম- শ্ৰী জয়ন্ত বেজ বৰুৱা

শ্ৰেনী- স্নাতক প্ৰথম বৰ্ষ

ৰোলনং- ১০

বছৰ- ২০২২

Paper - pol - RC - 1016

Schedule of Sessional Examination (Session: 2021-22)

B.Sc. 2nd and 4th semester {Honors and HG/RC (General)}

Department of Chemistry : Barbhag College

Date	Semester	Paper	Time	Room
14/07/2022(Thurs)	4th semester (Honors)	CHE-HC-4016	10-11 AM	Honors Room
14/07/2022(Thurs)	2nd semester (Honors)	CHE-HC-2016	12-1 PM	Room No 4
14/07/2022(Thurs)	2nd semester HG/RC (General)	CHE-HG/RC-2016	12-1 PM	Room No 4
14/07/2022(Thurs)	4th semester HG/RC (General)	CHE-HG/RC-4016	1-2 PM	Room No 4
15/07/2022(Fri)	4th semester (Honors)	CHE-HC-4026	9-10 AM	Honors Room
15/07/2022(Fri)	2nd semester (Honors)	CHE-HC-2026	10-11 PM	Honors Room
16/07/2022(Sat)	4th semester (Honors)	CHE-HC-4036	10-11 AM	Honors Room

HoD of Chemistry
Barbhag College
P.O.Kalag,Nalbari(Assam)

(Gautam Baishya)

HOD, Dept. of Chemistry

Barbhag College

07/07/2022

Principal I/c & Secretary
Barbhag College

SCHEDULE OF UNIT TEST (SESSION: 2021-22)
B.Sc. 1st / 3rd /5th semester (H)

Date	Semester	Paper	Time
03/11/2021	1st semester/ 3rd semester	CHE-HC-1016/ CHE-HC-3016	9 AM
03/11/2021	5th semester	CHE-HC-5016	10 AM
04/11/2021	1st semester/ 3rd semester	CHE-HC-1026/ CHE-HC-3026	9 AM
04/11/2021	5th semester	CHE-HC-5026	10 AM
05/11/2021	3rd semester/ 5th semester	CHE-HC-3036/ CHE-HE-5026	9 AM
05/11/2021	5th semester	CHE-HE-5056	10 AM

SCHEDULE OF UNIT TEST (SESSION: 2021-22)
B.Sc. 2nd / 4th /6th semester (H)

Date	Semester	Paper	Time
02/03/2021	2nd semester/ 4th semester	CHE-HC-2016/ CHE-HC-4016	9 AM
02/03/2021	6th semester	CHE-HC-6016	10 AM
03/03/2021	2nd semester/ 4th semester	CHE-HC-2026/ CHE-HC-4026	9 AM
03/03/2021	6th semester	CHE-HC-6026	10 AM
04/03/2021	4th semester/ 6th semester	CHE-HC-4036/ CHE-HE-6026/	9 AM
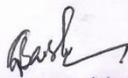
HoD of Chemistry
Barbhag College
P.O.Kalag, Nalbari(Assam)

Department of Chemistry
Barbhag College

Principal I/c & Secretary
Barbhag College

REPORT OF FIELD SURVEY
DEPARTMENT OF ECONOMICS
MARCH, 2022

The students (five) of B.A. 3rd semester with Economics honours conducted a survey in March, 2022 on the Socio-Economic Condition in different aspects such as livelihood sources, saving behaviour, Consumption pattern etc of rural people of the nearby villages of the college in the supervision of Dr. Nandita Goswami and Gitanjali Goswami. The students found that the average monthly income of the rural families is Rs. 34800 which varies from Rs. 165000 to Rs. 9000 with coefficient of variation of 101.6 percent, but the average monthly expenditure of the families is Rs. 17945 and it varies from Rs. 6250 to Rs. 37350 with coefficient of variation of 46.8 percent. Thus there is wide variation in income among the rural families but the difference is relatively less for expenditure. The rural families spend a major portion of their expenditure for food followed by travel, clothing, fuel (LPG and electricity), TV and mobile recharge, education, health etc. On an average, the rural families save almost 31 percent of their income and they mostly save their deposits in banks (85 percent) and post office (15 percent). The occupational structure of the rural families is shown in the following table.

Sl. no	Occupation	Percentage of families	
		As primary source	As secondary source
1	Farming	5	15
2	Government job	30	5
3	Private job	35	40
4	Business	10	5
5	Daily wage earning	20	35
6	Total	100	100
Source: Field survey			

The table shows that the primary source of livelihood of 35 percent of the rural families is private sector job followed by Government job of 30 percent families. The secondary source of livelihood of 40 percent families is also private job followed by daily wage of 35 percent families. Moreover, one student of the said semester conducted her survey on the Self- Help groups of two villages of Barbhag area. She found five SHGs in villages Moura and Sonkuriha and each of them have ten members. Of these SHGs, three of are promoted by bank, one is by block and the other is self promoted. Three (60 percent) of these SHGs are engaged in economic activities like fish keeping, weaving and agricultural farming and the other two are engaged in accumulating savings of the members and in providing loans. The average annual profit of the SHGs engaging in economic activities is Rs. 29300.

The photos of the survey are given below:

Principal I/c & Secretary
Barbhag College

Head
Department of Economics
Barbhag College

CLASS SEMINAR: 2021-22

DEPARTMENT OF ECONOMICS, BARBHAG COLLEGE

MAIN THEME: ECONOMIC REFORM AND INDIAN ECONOMY

Date -22/9/2021

Report:

Today on 22/09/2021, Department of economics, Barbhag college has organized a class seminar among the students of B. A. Honours course. The main theme of the seminar is 'Economic Reform And Indian Economy'. Dr. Nandita Goswami, Head of the Department has chaired the seminar. Kanak Ch. Lahkar, former Head of the Department of Economics, Barbhag College was present in the seminar as resource person. Prof. Lahkar in his speech has briefly elaborated the rational and consequences of economic reform of India. He also has explained different problems facing by the Indian economy after economic reform of 1991. All about 10 students of the department has participated in the seminar. The two students of B. A. 3rd semester and one of B. A. 5th semester prepared their papers on three topics and presented in the seminar.

Jumi Kalita of B. A. 5th semester has presented her paper entitled "Globalization and Indian agriculture". In her paper she showed both the positive and negative impact of Globalization on Indian agriculture and discussed the opportunities and challenges which have been arose for globalization. The second paper presenter was Chandana Kalita of B. A. 3rd semester and title of the paper is 'Rational of economic reform in India'. In her paper Chandana discussed the factors and situation leading to the emergence of economic reform in India. The third paper presenter was Bhaskar Kalita of B. A. 3rd semester and the title of his paper is "Economic reform and IT sector of India". In the paper, he discussed the trend and development of IT sector of India after economic reform. Further he discussed both the challenges and opportunities arose to the sector after economic reform. At last the chair person Dr. Nandita Goswami expressed her opinion regarding the changing structure of the Indian economy and the problems faced by the economy after economic reform.
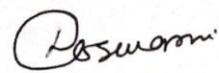
REPORT ON ESSAY COMPETITION
ORGANISED BY
DEPARTMENT OF CHEMISTRY, BARBHAG COLLEGE
Date: 28/05/2022

Today on 28/05/2022 an Essay Competition is held among the students of science stream, Barbhag College. The Competition is organized by the Department of Chemistry. The topic of the Essay Competition was "Ozone Layer Depletion and Green House Effect".31 nos of students from different classes of science stream participated in the competition. All the faculty members of chemistry department forwarded necessary cooperation and help in successful organizing of the competition. Out of these participants three nos of students were selected as the 1st, 2nd and 3rd prize winners. The name of the prize winner students are given below-

1st prize --- Miss Sumita Rajbongshi (B.Sc. 4th semester Honors)

2nd prize--- Miss Chandrasmita Sarma (B.Sc. 2nd semester Honors)

3rd prize--- Miss Chandrama Talukdar (B.Sc. 2nd semester Honors)

Prizes of the competition were distributed on 14/06/2022.

Photographs and signature sheet are attached herewith
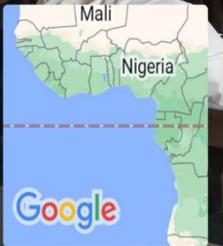
Khudra Dingdingi, Assam, India
9F7M+P2W, Khudra Dingdingi, Assam 781347, India
Lat 26.36453°
Long 91.483397°
28/05/22 01:07 PM

Khudra Dingdingi, Assam, India
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28/05/22 01:08 PM

Essay Competition   28/05/2022
Department of Chemistry, Barbhag College
Topic: Ozone Layer Depletion and Green House Effect

Name & Signature of Participating students:
1. Chandrasmita Sarma
2. Panja Rahman
3. Nabadeep Lahkar
4. Bhaskar Jyoti Das
5. Rupjyoti Barman
6. Bibek Mazumdar
7. Himangshu Patowary
8. Nabadeep Kalita
9. Sumita Rabongshi
10. Manash Jyoti Baishya
11. Chandrama Talukdar
12. আহাদ পাঠ
13. Jubin Kumar Sarma
14. Jyotismita Talukdar
15. Bipakshi Taluktar
16. Nidashree Kalita
17. Firdousi Rahman
18. Suman Baishya
19. Saurav Saikia
20. Mrinmoy Bezbaruah
21. Niharjyoti Kalita
22. Kaushik Saiku
23. Wasim Raja
24. Maniraj Ahmed
25. Arif Ali
26. Injamul Hussain
27. Rahul Kalita
28. Mostab Ahmed
29. Sanjib Bezbaruah
30. Dhrubajyoti Talukdar
31. Nestahman Sarma

Essay Competition, Dept of Chemistry   28/5/22

Signature of teachers
1. Gautam Baishya
2. Mukut ch Baishya
3. Khalilur Rahman
4. Bishajit Bhuyan
5. Mahanala Pathak
6. Lutfur Rahman

BARBHAG COLLEGE
Date:-
Kalag, Dist- Nalbari, Pin-781351

Principal i/c & Secretary
BARBHAG COLLEGE

REPORT ON CLASS SEMINAR
DEPARTMENT OF CHEMISTRY, BARBHAG COLLEGE

DATE: 10/06/22   **VENUE: DEPARTMENTAL CLASS ROOM**

Today on 10/06/22 a class seminar is held among the Chemistry Honors students of B.Sc 2nd and 4th Semester. Total twenty six (26) no students were participated in the Seminar. The topic of the seminar for 4th Semester students was coordination compounds and the same for the 2nd Semester students was Hybridization. From the 4th Semester Honors Class, Sumita Rajbongshi, Himangshu Patowary & Manashjyoti Baishya presented their Seminar topic. Again from the 2nd Semester Honors Class Naba deep Lahkar, Chandrasmita Sarma and Chandrama Talukdar presented their Seminar Topic. All faculty members of the Chemistry Department namely Mr. Gautam Baishya, Mukut Ch. Baishya , Md. Khalilur Rahman and Mr. Biswajit Bhuyan were present in the Seminar as resource person . After the presentation, an interactive session was held among the participants & resource person. All the students presented their topic elaborately. At the end of Seminar the resource persons suggested them to follow the rules & regulation of Seminar in future course of time.

Photographs and signature sheet are attached herewith.

Khudra Dingdingi, Assam, India
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Long 91.483397°
10/06/22 02:27 PM

Principal I/c & Secretary
Barbhag College

Khudra Dingdingi, Assam, India
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Long 91.483397°
10/06/22 02:29 PM

Class Seminar   10/06/2022
Dept. of Chemistry, Barbhag College for B.Sc.(H) 2nd & 4th Sem

1.	Himangshu Patowary.	BSc 4th Sem (H)
2.	Nabadeep Kalita.	BSc 4th Sem (H)
3.	Manash Jyoti Baishya.	BSc 4th Sem (H)
4.	Bibek Mazumdar	B.Sc 4th Sem (H)
5.	Rupjyoti Barman	B.Sc 4th Sem (H)
6.	Sumita Rarbongshi	B.Sc. 4th Sem (H)
7.	Chandrama Talukdar	B.Sc. 2nd Sem (H)
8.	Chandrasmita Sarma	B.Sc. 2nd Sem (H)
9.	Ranju Rahman	B.Sc 2nd Sem (H)
10.	Nabadeep Lahkar.	B.Sc 2nd sem (H)
11.	Bhaskar Jyoti Das.	B.Sc. 2nd Sem (RC)
12.	Naben Jyoti Deka	B.Sc. 2nd Sem (H)
13.	Jukin Kumar Sarma	B.Sc. 2nd Sem (H)
14.	Nasiuma Begum	B.Sc 2nd sem (H)
15.	Parishmita Begum	B.Sc 2nd Sem (H)
16.	Krishna Lahkar	B.Sc 2nd sem (H)
17	Minakshi Baishya	B.Sc 2nd sem (H)
18	Dhrutiman saruna	B.Sc 2nd sem (H)
19	Sajful Ali	B.Sc 2nd Sem (H)
20	Tarek Zaman	B.Sc 2nd Sem (H)
21	Mridusmita Das	B.Sc 4th Sem (H)
22	Anurag Skashar	B.Sc 2nd Sem (H)
23	Aminul Haque	B.Sc 4th Sem (H)
24	Nishiranjan Talukdar	B.Sc 2nd Sem
25	Nayan Jyoti Deka.	B.Sc 4th sem
26	Bishal Kalli	B.Sc 2nd Sem

Signature of teachers attended   B.Sc
1. Gautam Baishya.
2. Mukut Ch Barbhya.
3. Bishajit Bhya.
4. Raghananda Porkah
5. Lutfor Rahman.

Principal I/c & Secretary
Barbhag College

EXTEMPORE SPEECH COMPETITION
Organized by
Department of Physics, Barbhag College
Date: 13- 06-22

      An extempore speech competition was organized by the department of Physics, Barbhag College among the students of the college on 13-06-2022. The competition was held in the conference hall. The objective of the competition was to make the students confident and better orators. The competition was inaugurated by Dr. Karuna Baruah, Academic In-charge of the college. In his inaugural speech Dr. Baruah said that extempore speech is an excellent way to assist the students not only in spontaneous thinking but also in asserting their creative ideas with precision. He ended his lecture conveying best wishes to the participants. The competition was started at 12:30 pm. The judges were Mr. Dweepen Kr. Das, HOD, Botany and Mr. Lakshi Nath Coudhury, Assistant professor, department   of physics. Number of students participated in the competition was 15. The winners were-

Name	Class	Position
Riya Devi	B.A. 1st Semester	First
Anindita Baruah	B.A. 3rd Semester	Second
Satirtha Thakuria	B.Sc 3rd Semester	Third

Prizes were distributed at the end of the programme.

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781347, India
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Long 91.483386°
16/06/22 02:23 PM

Khudra Dingdingi, Assam, India
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781347, India
Lat 26.364461°
Long 91.483386°
16/06/22 02:23 PM

SIGNATURE:

Extempore Speech Competition
Department of Physics.
Date: 16/06/2022   Venue: Conference Hall

Judges:
1. Dwipen kumar Das, Assistant Professor
   Department of Botany, Barbhag College.
                                    16/6/22

2. Lakshi Nath Choudhury,
   Assistant Professor, Department
   of Physics, Barbhag College.
                                    16/6/22

Guest: Dr. Karuna Baruah
   Academic In-charge, Barbhag College
                Karuna Barua 16/06/22

Participants:
1. Raktim Talukdar   BSc. 2nd Sem.
2. Nabadeep Lohkar   BSc. 2nd Sem.
3. Heman Deka   BSc. 2nd Sem.
4. Riya Devi   BSc. 2nth Su.
5. Pritam Barual   BSc 2nd sem (Nalbari College)
6. Sajd Ahmed   BSc. 4th Su.
7. Bhargab Patowary   HS 1st year
8. Anindita Baruah   2nd Sem.
9. Peeankrishna Bhuyan   2nd Sem.
10. Anurag Kashap   HS Final Candidate
11. Satiretha Thakuria   BSc. 2nd Sem.
12. Jahnabi Kalita   BSc. 2nd Su.
13. Nilotpal Deka   BSc. 2uth Seen.
14. Neeban Das   BSc. 4th Sem.
15. Nekibure Jaman   BSc. 6th Su.

16. Jyatirmoy Talukdar   BSc. 6th Su.

Signature:
1. Sumi Begum
2. Buri Begum
3. Nishita Kalita
4. Nijuma Begum
5. Sri Sangeeta Kalita
6. Mousumi Begum
7. Heya Das
8. Satabdi baishya
9. Riya Devi
10. Anindita Baruah
11. Preankrishna Bhuyan
12. Anurag Kashyap
13. Barastra Krakati
14. Satirtha Thakuria
15. Nabajyoti Deka
16. Dhruba Jyoti Saikia
17. Bishal Kalita
18. Jubin kumar Sarma
19. Bikash Kalita
20. Abdul Latib
21. Brind u
22. Pratima Barua
23. Herakjyati Das
24. Kaushik Deka

Principal I/c & Secretary
Barbhag College

Mahananda Pathak
Head of the Deptt.-of Physics
Barbhag College, Nalbari (Assam)