

Bidhan Chandra College department of chemistry

Ref. No. Date: 03-05-2024

Notice:

Subject: HOME ASSIGNMENT of 6th Semester B.Sc. (Hons) in Chemistry 2024

It is hereby informed to the students of 6th Semester B.Sc. (Hons) in Chemistry that they have to submit the home assignments. The questions of the home assignments will be available from the respective teacher of the department. THa last date of submission of the assignment is 13th May, 2024. After the mentioned date and time no home assignments will be accepted. The students are advised to write all the necessary details at the cover page. It also advised not to print or art unnecessary design on the cover page of home assignments. The Home assignments should be written neatly and clearly by giving margin on all sides of the page.

(Dr. Tapan Kumar Si)

Head, Department of Chemistry

Bidhan Chandra College

Home Assignment - 2024 6th Semester

Discipline: Chemistry (HONOURS)

Course Name: Inorganic Chemistry - V

Course Code: BSCHCEMC601

1.	Differentiate between precision and accuracy.	2
2.	What do you mean by systematic error and random error.	2
3.	Calculate the standard deviation of the following: 107.861, 107.870, 107.881, 107.892.	2
4.	What is significant figure? State the significant figure of 0.0035200.	2
5.	Calculate the result of the following in proper significant figure:	
	(i) $(9.123 \times 8167) / (26.9501 \times 2.361) = ?$	
	(ii) $\log(3.124 \times 23) = ?$	

Name: Rohit Sharma · Discipline: chemistry (Honours)

· Course Name: Inong anic chemistry - (v)

· Course code: B3CHEEMC601

· semester: 6th semester

1. Differentiate between precision and accuracy?

An: Precision

(1) The extent to which measured (1) The extent to which readings are close to the staf value, called precision.

(ii) Precision is a measure of the reproducibility of the measurement!

(iii) This measurement will be statistical variability.

Accuracy

readings are close to the real value, called Accuracy,

(ii) Accuracy is closeness with the true value of the quantity being measured.

(iii) This measurement will be statistical bias.



2. What do you mean by systematic error and rando error 2

Ans: Systematic error: when an observed or calculated value deviates

from the true value in a consistent way, called systematic error.

Ex: Error in measurements of solar radiation because trees or buildings shade the radiometer.

Random error: Random error is a chance . difference between the observed and true values of something. Ex: - A researcher mis reading a weighing scale records an incorrect measurement 3. calculate the standard deviation of the following: 107.861, 107.870, 107.881, 107,892. Ans: - Mean: (107.861+107.870+107.881 + 107.892] = 107.876 CSa CSa $= \sqrt{(107.861 - 107.876)^{2} + (107.870 - 107.876)^{2} + (107.892 - 107.876)^{2}} + (107.892 - 107.876)^{2}$ = 0.000225 + 0.000036 + 0.000025 + 0.000256)/4 Calculated = 10.0001355 = 0.01163 So, the standard deviation is approximately 0-01163 Ans

4. what is significant figure? State the significant figure of 0.0035200. Am: Significant figure: Those significant or important digits, which convey the meaning according to its accuracy, called significant figure. Ex: 6.658 has four significant digits.
These substantial figures provide precis
to the numbers. significant figure of 0.0035200 is, 5

5. calculate the result of the following in proper significant figure:

$$\frac{(9.123\times8167)}{(26.9501\times2361)} = \frac{74,507,541}{63.6291861}$$

(ii)
$$109(3.124\times23)$$

= 1.8564388612
= $1.8564Ang$

X

Bidhan Chandra College

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Notice for Assignments

All concerned 6th semester Mathematics Honours students are here by informed that an assignment based unit test will be held on and from 17/05/2024 as per the following routine. All students are hereby directed to attend the unit test as directed by the concern teachers. Syllabus of the assignments will be informed by the respective subject teacher.

Paper	Date	Time
Complex Analysis (CC-13)	17/05/2024	Within 2 days
Numerical Methods and Numerical Labs (CC-14)	17/05/2024	Within 2 days
Number Theory (DSE-3)	18/05/2024	Within 2 days
Discrete Mathematics (DSE-4)	18/05/2024	Within 2 days

Dated: 14/05/2024

Indubaran Mandal

HOD

Department of Mathematics
Bidhan Chandra College, Asansol-4

HOD IN MATHEMATICS B.C. College, Asansoi

Assignment 6th Semester (Hons.)

Paper Name: Number Theory , Paper Code: BSCHMTMDSE602 Bidhan Chandra College, Asansol-4

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Answer all questions:

 5×2

- (1) For m > 0 and $a, b, c, d \in \mathbf{Z}$ such that $a \equiv b \pmod{m}$ and $c \equiv d \pmod{m}$ then, $a + c \equiv b + d \pmod{m}$.
- (2) Prove that, $\mu(n)\mu(n+1)\mu(n+2)\mu(n+3) = 0$ for any positive integer n.
- (3) Given 2 = -3 (18) + 2 (28) find all the solution of the linear Diophantine equation 18x + 28y = 20.
- (4) If gcd(a, 30) = 1, show that 60 divides $a^4 + 59$.
- (5) For real numbers x and y, show that $[x] + [y] \le [x + y] \le [x] + [y] + 1$.
- (6) State Fundamental theorem of Arithmetic.
- (7) Show that $\phi(3 n) = 3 \phi(n)$ if and only if $3 \mid n$ for any integer n.
- (8) Find the values of d(180) and $\sigma(180)$.



Assignment

Main Answer Booklet Number: KNU22/

Course Code: BSCHMTM186602

Course Name: Number Theory (Assignents proken)

Name: Rahat Parween.

Registration No: 103211220102

Answer any five questions:-

6) Fundamental

Fundamental theorem of frithematic states That every integer greater than 1 (n) 1) can be uniquely factorised into prime mos except (the order of the factors. This theorem is the cornerstone of number theory and have several important implications.

1) Solution:

Given, a = b (mod m)

we have (a-b)=km for some integer (k).

Similarly,

Given, C = d (mod m)

We have (c-d)= lm for some intger(1)



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Ref.No. Date: 21/05/2024

NOTICE

INTERNAL THEORY AND PRACTICAL EXAMINATION-2024

B.SC 6th SEMESTER PROGRAM SUBJECT -BOTANY

All the students are hereby informed that their **6th semester Internal theory and practical examination** will be held on 25/05/2024

Time: 11:00a.m onwards

Dated: 21 May, 2024

Department of Botany

Name > Aditya Mendul Kegn. no -> 103211120004



6th Semester Internal Theory Botany Program Exam

Paper Code-BSCPBOTC601

Paper Name- Cytogenetics

F.M.- 10

Time-30mins

Date-25/05/2024

Answer any 5 question of the following:

1) What is G0 phase? Give example of a cell remain in G0 phase.

2) Name one semi-autonomous cell organelle and mention its function.

3)Define frame shift mutation.

4) Name one alkylating agent and one base analogue.

5)Chromosome number '2n-1' and '2n+1'. What does it signify.

6)State the" law of independent assortment" by Mendel.

Ans. 1 Co phase is a phase in a where the cell does not divide and grow and enters a stage of dormancy on to perform some specialised function. (neuron)

Nenve cell of brain and heart cells are examples of cells which remain in Go phase.

Ans. Chloroplast is an example of sem: - outonomous cell organelle. The functions of chloroplast one: -

x/1/2

2) Photosynthesis - The primary function of chloroplast is photosynthes

by converting light energy into chemical energy and

water stoned in glucore

a> Design production - During photosynthesis, oxygen is released which

helps in respiration of animals,

3.) It is a type of genetic mutation caused by indels of a number of nucleotides in a DNA sequence that is not divisible by three. It is caused by deletion or insertion is a DNA sequence that shifts the way sequence is read.

2024

6TH SEM INTERNAL PRACTICAL EXAMINATION

SUBJECT-BOTANY

COURSE NAME- CYTOGENETICS

COURSE CODE- BSCPBOTDSE601

Full Marks: 30 Time: 2 hours

Answer the following question:

- 1. From the given pedigree chart, study the pedigree analysis and find what the pattern of inheritance does this trait follow. (6)
- 2. Test your blood group with the blood grouping kit. (4)
- 3.Consider the supplied sample 'A' represent seeds of F2 generation from the selfed F1 plants. Apply Chi-Square test and comment on the mode of inheritance of the seed size and seed coat colour. (10)
- 4. Make a temporary squash preparation with aceto-orcien of the supplied root tip material 'B'. draw neatly any two characteristic divisional stages observed by you, label properly and comment on them. (5+5=10)

B.S.C Bros Rofan Tolo



Officer-in-Charge



Kazi Nazrul University

0		Semester Examination 20?
Discipline:	Botary	Course Code: BSCPBOTDSE 60
Course Name:	Cyto	genetics
Roll Number: .	1034	2106112043001
Registration N	umber:	103 Q 11 1 Q 0 0 0 4 of 20 Q 1 -20 Q 2
Question No.	Marks	INSTRUCTIONS TO CANDIDATES
		 The Candidate must not write his/her name or the name of his/her college anywhere in the answer script (except front page). All answers must be written on both sides of the pages of the script and not on one side only. Pencil/Red ink should not be used for answering questions. However, pencil may be used for sketching / drawing / labelling. No loose paper will be provided for scribbling and no paper should be brought inside the Examination Hall. Any candidate found with unauthorised documents in his/her possession will be expelled. All rough works must be done in the script provided and no page of the script must be torn out. The script provided must be submitted before leaving the Examination Hall. If any condidate leaves the ball with the leaving the Examination
		Hall. If any candidate leaves the hall without submitting the script, his/her entire examination will be treated as cancelled. 8. Candidates are forbidden to write answer or anything else on the question papers, the admit card etc. 9. No candidate will be allowed to leave the room in the first hour of the
1001		9. No candidate will be allowed to leave the room in the first hour of the Examination. 10. No electronic devices like Cell Phone, Bluetooth etc. will be allowed inside the Examination Hall.

Allya Mondal 25.05.24
Signature of the Candidate with Date

Total Marks

Phatter 2.06.24 Signature of the Examiner with Date

Signature of Invigilator after verification with Date

TT Description of the pedigree: ~ 1. Total no. of generations - 4.
2. Total no. of individuals - 22 I 3.> Total no. of males - 93 4.> Total no. of females - 9 Ш Ist genera from: N N Normal mole, carrier female Total no. of individuals - 2 Total no. of males - 1 Total no. of females - 1
Total no. of affected males - 0 00 Total no. of carrier females - 1 2nd generation. Total no of individuals - 4 Total no. of males - 2 Total no. of females - 2.

Total no. of affected males - 1

Total no. of carrier females - 1. 3nd generation Total no. of individuals - 8 Total no. of males - 5 Total no. of females - 3 Total no. of affected males - 1 Total no. of carrier females - 2

Pedigonee Analysis

4th generation Total no. of individuals - 8
Total no. of males - 5
Total no. of females - 3
Total no. of affected males - 2
Total no. of carrier females - 2 Pedigree Analysis. 2. Usually more male, than females are affected.

2. Affected sons are born to unaffected mothers (carriers)

i.e they skip a generation.

3. Never passed from father to son.

4. All daughters of affected fathers are carriers (i.e they can pass the allele to a daughter. Hence, the trait is X-linked necessive. 2. ABO Blood gerouping: Blood does'nt
agglutinate Blood agglutinates Total no of semales. Observations: -1. If Blood near point 'A' agglutinates, then the blood group is 2. If the blood near point 'B' agglutinates, then the blood group If the blood near both points 'A' and 'B' agglutinates, then.

The blood group & AB. If the blood near both points "A" and "B' does not agglutinate, Then the blood group is 0. 'D' agglutinates, then the blood group is Rh positive. c(2) - estan hataffa ef corrier females - a

Department of English, Bidhan Chandra College, Asansol

NOTICE

Assignment Notice for 1st Semester B.A and B.Sc. MIL ENGLISH (AEC PAPER) Students:
Topic of Assignment: VARIOUS MODES OF COMMUNICATION (word limit 1000 words)
Students must be present at the Department of English on 19^{th} January 2024 (between 11.30 am - 3 pm) and submit their assignments.
Mention the following detail at the top sheet of the assignment:
Name:
B.A/ B.Sc.:
Subject/Department:
College I.D Number (as mentioned on Students' ID card):
Mobile No.:

Coordinator in English 11.01 29

Department of English (PG & UG)

Bidhan Chandra College

KAZI NAZRUL UNIVERSITY



BIDHAN CHANDRA COLLEGE

NAME - BUSHRA RASHID
REG. NO. -103231220034
TOPIC - VARIOUS MODES OF COMMUNICATION
SESSION - 2023-2024
DEPARTMENT-ZOOLOGY (MAJOR)
Phone No - 8372069914

Various Modes of Communication

Communication is the act of townsteading on exchanging information from one person, group or place to another. The world communication is decined from the word "Commonis" Commonis is a latin word which means common. The common components in all kinds of interactions and communications is understanding. Communication play an important sole in human like and society. Along with exchanging information and knowledge, it helps in movet. Buythker 3 ydood voung view ships show education to the workplace and even homan socioties depends on communication to understand each other. Communication is 018 as over Chilisation itself. Communication plays on singuant censimpo espesis priverals in store functioned in classifying doubts also.

The testin "mode" generally evelables to how samething is some on experienced. In sufference to communication a mode of Communication is expressed by the sender on the way by which a communication is expressed by the sender on the way a succeiver.

10 Lest unit / Unit Test - 2024.

Bidhan Chansia College, Asansol

UGI-4th Semester

Name: DIPALI GORAI

Discipline: PHILOSOPHY

Cource Name : Western Logic-I

Cowice Code : BAHPHIC401

Reg. No : 103221210051

2000 -٠..

1 4 72 61

शिक्ताचुरा भागाव जावक वास अवक्या । व्यक्त्य द्रम द्रमाद्या विमेटिकं केव नाकिमाश्वर महीत कामा मूक्यां क्या, सर्वात गाला । जाया - हुआ गाक क्रिलाह एएव काम्याम एकाएर दारकाल. नेकाम ठे- न्यवं ब्रह्मक उपल सामा ठम अरद्भात छ त्यम्याक राष्ट्राक राष्ट्राक राष्ट्राक Takyin 1 exten crange cooling outlier of आलाह ता कार । कार हमा हमा हमा वर्ष महारा ज्यामान (न्याकेस कार्यात्वर याम्य अक दिल्हा ज्यां किलमार्ष्ट्र अपुक् मार्थेक कार्येक उक्का वक्षा न्याव अवन्त्राम, जाएन जाना जनमात जानाम द्रायान . यून व्यक्ति दुरव्यात्तर अल्पिस्वा अल्प उमा उमे - क्रा स्वरूपता है - खादि वादि -ब्राज्यात्रंकतः अएटल उ उत्पादीस्पर देवरण्या व्य ज्यापन रात्मात मायाद्व त्रक या गार्थ न द्वा ्यती रक वामा यादी सामी यक वाट उत्पा यें क्रान्तारोक्षक न्यान्त । न्याद्यक नुमार्थक्षित्राच्य उत्तर्भ अप्तिकेष क्षामा . जाक (य क्षाकि क्याप्याम राद्यामक वाएम टिमियो उम आण ' ट्याटिस क्रिक मुख्या नाम यो उत्पार क्या वर्षाम्यक्ष्य प्रकारका COTTO क्यान , द्या देशकाप्तुक आह्यां नाहासिक महात्व अधिक कालिक किला कार्य किला किला

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इस्त उट्टम ' काटक क्ष्यक्षीई एक्टिंक सहस खास्रक्रिक इसकिते ' सम्पृष्ट प्रत्यात्मादक मुक्का खाटक खाटक खाटक खाटक खाटक खाटक खाटक

ां अब्यानक कार्यात्वा महा महा महा महा है

स्थितिक क्षित्रकृत का स्था क्षित्रकृतिक का क्

ं महावित्र देखार /!!!

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ंग (काकी नाकी के नाम है

स्थान क्षित केपापुर क्षित्रका स्थान स्था स्था के किया स्था किया के किया स्था के किया किया के किया के किया के किया के किया के किया किया

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ज्याह स्ववल्यक नाम नेक स्ववल्य यहा, त्यां - व्यांत क्षेत्र कारण व्याचा न्यांत ्यार्थ एकाए० कुवानेते २००३ कम्हाता न्यांकंस एक प्राप्त केट्याम खळ त्याजामी मेन्द्रिण खळ नाम्बर्म अत्यादं क्यो स्थाप्त थावा याकिष्णिया। प्रवश्यवं खळ्ल प्रथम , त्राम्य द्याम्य , न्या क्यां त्वरत्ता किया ह क्यारिक्षिया , केटल क्यारिय क्यारिय ्य क्या उत्पाद के के के कार कार कार्या कार्या न्यार्कातं अस्ति अस्ति विष्णु अस्ति विष्णार्वेत्यार्कात िवार क्षेत्र किया स्थाप अस्ति अर्थेस अर्थेस अर्थेस अर्थेस अर्थेस उक्तामीति १०००कि एकाठाक. कण्य वाण्य वाण्यामी क्रिक्ट क्राक एक क्रिका क्रिकार कारक नाज के अर्थेप केंद्र काश्याम काश्या कार कार कार 360,

Department of Philosophy Biolhan Chandra College, Asansel

Notice for Assignment (1st Unit)

BA Honours students, 4th semester (batch 2022-23), are asked to submit their Assignment (for 1st Unit Test) within 21.06.24.

Course Coole	Topic	Teacher
5 DUIC 1001	Hypothesis	SC
13447110 10.	The ory of	BD
BAHPHIC 402 BAHPHIC 403	Learning Hinduism	BM.

, Se (1+0D) 01.06.24.

· Assignment' on any one Students are to submit 'Assignment' on ar question:-1. Discuss the achievements of Saranka as the rule of Ganda.
Ette 13 2000 (27573 2000 3. 263. 00000000 2. Write a short note on the socio-economic condition of women in Early medieval Bengal. Wisters- oust. Everyde gray is--0-Wt 33) Flas. Sic 200 ans. 7265- Ecles. Star CIVII Submission date: - 41 25 in March 2024 from 11 am

BRDHAN CHANDRA COLLEGIE

MAME: TAMANNA BAND

REGISTRATION NO: 103231110012

PAPER NAME: HISTORY (MD)

Rou No: DAP-106/23

DATE :- 04/03/24

