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No. of Printed Pages : 16

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117/2 323 (TX)

2016

ENGLISH

Second Paper

Time : 3 Hours 15 Min.] [Max. Marks : 50

Instruction : First 15 minutes are allotted for the candidates to read the question paper.

Note :

i) Question No. 4 has *three* Parts : I, II and III. Attempt only *one* part of Question No. 4.

ii) All other questions are compulsory.

642191

Series JBB

SET-4

Code No. **95**

Roll No. [| | | | | |]

Candidates must write the Code on the title page of the answer-book.

नोट	NOTE
(I) कृपया जाँच कर लें कि इस प्रश्न-पत्र में मुद्रित पृष्ठ 11 हैं ।	(I) Please check that this question paper contains 11 printed pages.
(II) प्रश्न-पत्र में दाहिने हाथ की ओर दिए गए कोड नम्बर को छात्र उत्तर-पुस्तिका के मुख-पृष्ठ पर लिखें ।	(II) Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
(III) कृपया जाँच कर लें कि इस प्रश्न-पत्र में 39 प्रश्न हैं ।	(III) Please check that this question paper contains 39 questions.
(IV) कृपया प्रश्न का उत्तर लिखना शुरू करने से पहले, उत्तर-पुस्तिका में प्रश्न का क्रमांक अवश्य लिखें ।	(IV) Please write down the Serial Number of the question in the answer-book before attempting it.
(V) इस प्रश्न-पत्र को पढ़ने के लिए 15 मिनट का समय दिया गया है । प्रश्न-पत्र का वितरण पूर्वाह्न में 10.15 बजे किया जाएगा । 10.15 बजे से 10.30 बजे तक छात्र केवल प्रश्न-पत्र को पढ़ेंगे और इस अवधि के दौरान वे उत्तर-पुस्तिका पर कोई उत्तर नहीं लिखेंगे ।	(V) 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

कृषि
AGRICULTURE

निर्धारित समय : 2 घंटे अधिकतम अंक : 50
Time allowed : 2 hours *Maximum Marks : 50*

[95] 1 P.T.O.

Date

Expt. No. 1 Page No. 1

EXPERIMENT 1

AIM :-
To determine the angle of minimum deviation for a given glass prism by plotting a graph between the angle of incidence and the angle of deviation.

APPARATUS REQUIRED :-
- A drawing board.
- Sheet of paper
- glass triangular prism
- pins
- a half meter scale
- a graph paper
- protractor

THEORY :-
When we plot angle of deviation (∠δ) for different values of angle of incidence (∠i) then at first angle of deviation decreases with the increasing of angle of incidence, till a particular value of angle of incidence. For this value of angle of incidence the corresponding value of angle of deviation is minimum. This angle of deviation is called angle of minimum deviation. On further increasing

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26	Electrostatic force= centripetal force	⅓ mark	
	Angular momentum=$\frac{nh}{2\pi}$	½ mark	
	Formula for radius of nth orbit	1 mark	

$$F_c = F_E$$

$$\frac{m_e v_n^2}{r_n} = \frac{Kze^2}{r_n^2}$$ ½

$$m_e v_n^2 r_n = Kze^2$$

By Bohr's second postulate

$$L = m_e v_n r_n = \frac{nh}{2\pi}$$ ½

$$r_n = \frac{n^2 h^2}{4\pi^2 m_e ke^2 Z}$$
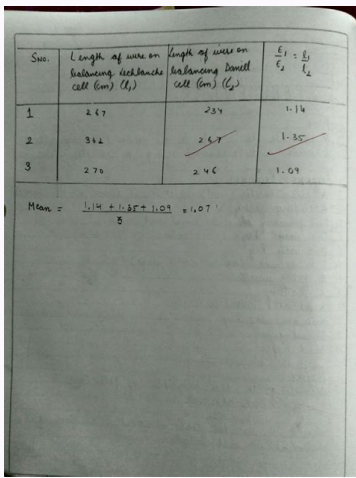
$$r_n = \frac{n^2 h^2}{4\pi^2 m_e ke^2} \ (\because Z = 1)$$ 1 2

OR

Two observations	1 mark
Diagram	1 mark

a)
(i) There exists a threshold frequency below which no photoelectron is ejected. ½
(ii) KE of electron depends linearly on frequency and is independent of intensity of radiation. ½
[or any other correct observation]
b)

1 2

[only curve is essential to draw]

Page 7 of 18

Please download CBSE Class 12 Chemistry Sample Paper 2020 Solved Set A Chemistry Class 12 Sample Paper 2020 CBSE Class 12 Chemistry Sample Paper 2020 Solved Set A. H2SO4 solution) is electrolysed, will the pH of the solution be affected ? Identify both the isomers and explain the observations. The manner in which NaOH reacts with Phenol is different from its reaction with Propanol.What does this difference indicate? Calculate the freezing point of a solution containing 0.5 g KCl (Molar mass = 74.5 g/mol) dissolved in 100 g water, assuming KCl to be 92% ionized.Kfof water = 1.86 K kg / mol.29. Both the solutions are separated by a Semi Permeable Membrane as shown in the following diagram: a) Which side will the formation of blue color take place? 28 to 34 are long answer questions and carry 3 marks each.(e) Section D: Q.no. Give one example of such a substance and one example of a substance which does not show a large variation from the true value24. 21 to 27 are short answer questions and carry 2 marks each.(d) Section C: Q.no. 6 a) Convert Acetaldehyde to Formaldehyde in minimum number of steps. Students can download the sample papers in pdf format free and score better marks in examinations. b) What is such a phenomenon known as and why does it occur? NaOH , is much higher than that of A. products, the following initial rates were obtained at various given initial concentrations Determine the half-life period.OR A first-order reaction is 50 % complete in 50 minutes at 300 K and the same reaction is again 50 % complete in 25 minutes at 350 K. Answer the following questions:(a) Which of the following electrolytes is most effective for the coagulation of AgI/Ag+ sol?MgCl2, K2SO4, K4[Fe(CN)6](b) What happens when a freshly precipitated Fe(OH)3 is shaken with a little amount of dilute solution of FeCl3.(c) Out of sulphur sol and proteins, which one forms macromolecular colloids? Justify 3 Give the monomer of the polymer used to prepare pipelines for transport of water . HCl and anhy. 4 Out of Valium and Ranitidine, which drug is to be prescribed to a person suffering from acid reflux? Assertion: The two strands in the double-strand helix structure of DNA are complementary to each otherReason: Disulphide bonds are formed between specific pairs of bases17. ZnCl2. [At. mass Li= 6.94u] Please click the link below to download CBSE Class 12 Chemistry Sample Paper 2020 Solved Set A Click to View or Download pdf file › Click for more Chemistry Study Material › UNESCO has declared 21st February of every year to be celebrated as International Mother Language day to promote dissemination of Mother Language of all, create awareness of linguistic and cultural traditions and diversity across the world and to inspire solidarity... FeCl3 8 Following reaction takes place in one step:- 2NO (g) + O2(g) → 2NO2(g) How will the rate of above reaction change if the volume of the reaction vessel is diminished to 1/3 of its original volume ? (Atomic no. During the discharge of the battery, the density of H2SO4 falls to 1.139 g mL-1 . Assertion: The acidic strength of halogen acids varies in the order HF>HCl>HBr>HIReason: The bond dissociation enthalpy of halogen acids decreases in the order HF>HCl>HBr>HI19. of Co= 27)26. Which of the two has a larger value of the rate constant?23. Also give reason. It's always recommended to practice as many CBSE sample papers as possible before the board examinations. b) Which reagent is used to distinguish between Formic acid and Benzoic acid ? 7 Consider the following molecules: a) The rate of reaction of hydrolysis of B with dil. (Density=1.294 g mL-1) The battery holds 3.5 L of the acid. What is meant by Vapour phase refining? Write any one example of the process which illustrates this technique, giving the chemical equations involved.27. Assertion: C2H5OH is a weaker base than phenol but is a stronger nucleophile than phenol. Assertion: Glucose reacts with hydroxylamine to form an oxime and also adds a molecule of hydrogen cyanide to give cyanohydrin.Reason: The carbonyl group is present in the open-chain structure of glucose.18. Refer to other links too for latest sample papers. Write and explain the reactions involved in the extraction of gold. Assertion: Aryl halides undergo nucleophilic substitution reactions with ease.Reason: The carbon halogen bond in aryl halides has partial double bonds character.Section - B 21. 11 Lithium metal is used in the production of synthetic vitamin A and as a reducing agent . It is well accepted that Reading Literacy is not... CBSE Class 12 Board Chemistry Sample Papers are out at cbse.nic.in. Write structure of the products formed: 25. 1 Why does ZnS conduct electricity when temperature is raised? A 38% solution of sulphuric acid is used as an electrolyte. In view of the current... The sample papers have been provided with marking scheme. Which one of the following compounds will undergo hydrolysis at a faster rate by the SN1 mechanism? Calculate activation energy of the reaction.30. It exists with a density of 0.53g/cm3 and edge length of 3.5 Ao. Calculate the radius of Lithium atom . Explain. After solving these guess papers also refer to solved Class 12 Chemistry Question Papers available on our website to build strong understanding of the subject Chemistry Sample Paper Class 12 2020 Students can refer to the below Class 12 Chemistry Sample Paper designed to help students understand the pattern of questions that will be asked in Grade 12 exams. 1 to 20 are very short answer questions (objective type) and carry 1 mark each.(c) Section B: Q.no. 10 A compound C3H8O exist in two positional isomers, both of which differ in their acidic properties and reactivity towards a mixture of conc. Also, comment on the geometry and spin of the given entity. This festival showcases the... Also explain the reason for the same. The latest Class 12 Chemistry Sample Papers have been provided with solutions so that the students can solve these practice papers and then compare their answers. This will help them to identify mistakes and improvement areas in Chemistry Standard 12 which they need to study more to get better marks in Grade 12 exams. What will be the change in the order of the reaction . The rate of a reaction depends upon the temperature and is quantitatively expressed asK + as -E/ R Ti) If a graph is plotted between log k and 1/T, write the expression for the slope of the reaction?ii) If at under different conditions Ea1 and Ea2 are the activation energy of two reactions If Ea1 = 40 J / mol and Ea2 = 80 J / mol. Although the PDF is available online, here's a look at the sample papers available in a simple format.General Instructions(a) All questions are compulsory.(b) Section A: Q.no. Sample papers should be always practiced in examination condition at home or school and the student should show the answers to teachers for checking and compare with the answers provided. Also write the name of this entity according to the IUPAC nomenclature.OR Discuss the bonding in the coordination entity (CO(NH3)6) 3+ on the basis of valence bond theory. Calculate the number of lone pairs on central atom in the below molecule and predict the geometry.XeF422. Why?(5) Write the products of electrolysis when dilute sulphuric acid is electrolysed using Platinum electrodes.Questions 6 to 10 are one-word answers:(6) Name the substance used at depressant in the separation of two sulphide ores in Froth floatation method.(7) Name the unit formed by the attachment of a base to 1' position of sugar in a nucleoside(8) Name the species formed when an aqueous solution of amino acid is dissolved in water?(9) What type of reaction occurs in the formation of Nylon 6,6 polymer?(10) Which of the following compounds would undergo cannizzaro reaction:Benzaldeyde, Cyclohexanone, 2 - Methylpentanal.Questions 11 to 15 are multiple-choice questions: (11) The IUPAC name of the compound shown below is: (a) 2-bromo-6-chlorocyclohex-1-ene(b) 6 -bromo-2-chlorocyclohexene(c) 3-bromo-1-chlorocyclohexene(d) 1-bromo-3-chlorocyclohexene(12) When one mole of CoCl3.5NH3 was treated with excess of silver nitrate solution, 2 mol of AgCl was precipitated, The formula of the compound is:(a) [Co(NH3)5Cl2]Cl(b) [Co(NH3)5Cl]Cl(c) [Co(NH3)4Cl2] (NH3)Cl(d) [Co(NH3)3Cl3] (NH3)2(13) The absorption maxima of several octahedral complexions are as follows: The crystal field splitting is maximum for:(a) [Co(H2O)6] 3+(b) [Co(CN)6] 3-(c) [Co(NH3)6] 3+(d) All the complex ions have the same splitting,(14) Predict the number of ions produced per formula unit in an aqueous solution of [Co(en)3]Cl3(a) 4(b) 3(c) 6(d) 2(15) The incorrect statement about LDP is:(a) It is obtained through the free radical addition of ethene.(b) It consists of linear molecules.(c) It is obtained by the H-atom abstraction.(d) Peroxide is used as an initiatorQuestions 16 to 20 :(A)Both assertion and reason are correct statements, and the reason is the correct explanation of the assertion.(B) Both assertion and reason are correct statements, but the reason is not the correct explanation of the assertion.(C) The assertion is correct, but the reason is the wrong statement.(D) The assertion is wrong, but the reason is correct statement.16. As the CBSE Board exams are just a few months away, students can do self-assessment and understand the paper pattern released by the CBSE board via sample papers. The experimentally determined molar mass for what type of substances is always lower than the true value when water is used as solvent. 5 Using example describe Hoffmann Bromamide degradation. Students should solve the CBSE issued sample papers to understand the pattern of the question paper which will come in class 12 board exams this year. Section C 28. The Central Institute of Educational Technology (CIET), a constituent unit of National Council of Educational Research and Training (NCERT), is inviting entries for the 26th All India Children's Educational Audio Video Festival (AICEAVF). What are such drugs called. 35 to 37 are also long answer questions and carry 5 marks each.(f) There is no overall choice. 9 Aqueous solutions of K4[Fe(CN)6] and FeCl3 mix together to produce a blue colored complex of Iron hexacyanoferrate(II) . However, an internal choice has been provided in two questions of two marks, two questions of three marks and all the three questions of five marks weightage. Read and download PDF of CBSE Class 12 Chemistry Sample Paper 2020 Solved Set A designed as per the latest curriculum and examination pattern for Class 12 issued by CBSE, NCERT and KVS. Draw one of the geometrical isomers of the complex (Pt(en)2 Cl 2)2+ which is optically active. You have to attempt only one of the choices in such questions.(g) Use log tables if necessary, the use of calculators is not allowed.Section- ARead the given passage and answer the questions 1 to 5 that follow: A Lead storage battery is the most important type of secondary cell having a lead anode and a grid of lead packed with PbO2 as a cathode. Justify. Explain b) Give the product of reaction when both A and B are subjected to Bromine gas in presence of anhy. Datesheet for CBSE Board Exams Class 10 (Scroll down for Class 12 Datesheet) Datesheet for CBSE Board Exams Class 12 The acquisition of 21st century competencies of communication, critical and creative thinking and the ability to locate, understand and reflect on various kinds of information has become more crucial for our learners. For the reaction A + B? (20% H2SO4 by mass)(1) Write the reaction taking place at the cathode when the battery is in use.(2) How much electricity in terms of Faraday is required to carry out the reduction of one mole of PbO2?(3) What is the molarity of sulphuric acid before discharge?(4) The lead storage battery is considered a secondary cell. Ministry of Education, Govt of India vide letter No. F.No. 12-5/2020-IS-4 dated 16.12.2021 has intimated that under the banner Azadi ka Amrit Mahotsav the National Yogasanasports Federation has decided to run a project of 750 million Surya Namaskar from 01 January 2022... CBSE issues sample papers every year for students for Class 12 board exams. This is with reference to CBSE Notification No. 40/2021 dated 04.05.2021 regarding the Innovation Ambassador program – An online training program for teachers by CBSE in collaboration with Ministry of Education's Innovation Cell (MIC) and AICTE. (1)Reason: In phenol the lone pair of electrons on oxygen is withdrawn towards the ring due to resonance.20. 2 When acidulated water (dil.

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