STD XII - CHEMISTRY

Time: 3 hrs.]

(a) 68%

MARCH - 2013

[Marks: 70

7

SECTION - I

Q. 1.	Select and write the most appropriate answers from the given
	alternatives for each sub-question:
(i)	In body centred cubic structure the enece occupied is about

(b) 53% (c) 38% (ii) For a gaseous reaction the unit of rate of reaction is

(d) 32%

(a) L atm s⁻¹ (b) atm mol-1 s-1

 $(c, stm s^{-1})$

(iii) Which of the following compounds contains S = O as well as S = S bonds? (a) Sulphuric acid (c) Sulphurous acid

(b) Thiosulphuric aci (d) Thiosulphurous acid

(iv) Which of the following solutions shows maximum depression in freezing point? (a) 0.5 M Li₂SO₄ (b) 1 M NaCl (c) 0.5 M Al₂(SO₄)₃ (d) 0.5 M BaCl₂

(v) For a chemical reaction dS = − 0.035 kJ/K and dH = −20 kJ. At what temperature does the reaction turn nonspontaneous? (a) 5.14 K (b) 57.14 K (c) 571.4 K (d) 5714.0 K

(vi) The standard e.m.f. of the following cell is 0.463 V

 $Cu_{(s)}$ $Cu_{(\alpha q)}^{++}$ $Ag_{(\alpha q)}^{++}$ $Ag_{(s)}$. What is the standard potential of Cu electrode?

(a) 1.137 V

(b) 0.337 V

(c) 0.463 V

(d) -0.463 V

(vii) Fe₂O₃ is reduced to spongy iron near the top of blast furnace by ____ (a) H. (b) CaO (c) SiO₂ (d) CO

Q. 2. Answer any SIX of the following:

[12]

(i) Distinguish between crystalline solid and amorphous solid.

(ii) State Kohlrausch Law and write mathematical expression of molar conductivity of the given solution at infinite dilution.

(iii) Write cell reactions in lead storage battery during discharge.

(iv) Draw structures and write geometry of PCl₃ and PCl₅.

(v) Prove that ΔH = ΔU + Δ nRT. What is the condition under which ΔU = ΔH?

(vi) Mention names and formulae of two ores of aluminium.

(vii) Derive the relationship between relative lowering of vapour pressure and molar mass of nonvolatile solute.

(viii) What is pseudo first order reaction? Give one example of it.

Q. 3. Answer any THREE of the following:

[9]

(i) Calculate the mole fraction and molality of HNO3 in a solution containing 12.2% HNO3. (Given - atomic masses: H = 1, N = 14, O = 16)

(ii) Consider the reaction —

$$3I_{(aq)}^{-} + S_2O_8^{2-} \longrightarrow I_{3(aq)}^{-} + 2SO_{4(aq)}^{2-}$$
 at particular time t, $\frac{d[SO_4^{2-}]}{dt} = 2.2 \times 10^{-2} \text{ M/s}.$

What are the values of the following at the same time?

$$(a) - \frac{d[I^-]}{dt}$$

(b)
$$-\frac{d\left[S_2O_8^{2-}\right]}{dt}$$

(c)
$$-\frac{d\left[I_3^-\right]}{dt}$$

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Education Examination System From Independence to the Present aims to provide a comprehensive examination of the evolution reforms and current practices within India's examination system By delving into the historical context key reforms and future directions this book offers an in depth understanding of how India has shaped its education policies to address the aspirations and challenges of its people The examination system often criticized for its rigidity and high stakes nature has seen numerous reforms aimed at making it more inclusive equitable and reflective of students diverse talents and capabilities From the early post independence commissions such as the University Education Commission and the Secondary Education Commission to contemporary policies like the National Education Policy NEP 2020 each chapter of this book explores the milestones and turning points that have defined India's examination landscape What Ails Our Schools? VIMALA NANDAKUMAR, 2013-07 Though a large number of Indians have excelled academically the world over they constitute a miniscule fraction of Indians who have the potential to do equally well or better This book introspects on the educational system in India The author discusses the challenges faced by schools teachers and Principals The responsibilities of the management and the parents are addressed The challenges of overcrowded class rooms lack of infrastructure and absence of sensitive attention to students and dismissal of genuine complaints of students are discussed People engaged in imparting school education are persuaded by the author to accord top priority to students welfare in a sustained manner The author narrates many anecdotes drawn from experience to illustrate the ailments afflicting our schools The book is not merely a compilation of the challenges faced by our students teachers and Principals Some possible solutions are also suggested Children deserve the best education whatever be their social background The focus of the book is on children and entirely on children The book is dedicated to the student community the future of our country Bulletin of the Atomic Scientists ,1979-03 HSC Standard English Barry Spurr, Lloyd Cameron, 2009 This guide contains comprehensive summary and discussion of all 44 prescribed texts in the HSC Standard English course plus a list of key issues to consider in each chapter related to the relevant syllabus area helpful advice on how to read different types of texts plot outlines character discussion and interpretations Handbook of In Vivo Chemistry in Mice Katsunori Tanaka, Kenward Vong, 2020-04-27 Provides timely comprehensive coverage of in vivo chemical reactions within live animals This handbook summarizes the interdisciplinary expertise of both chemists and biologists performing in vivo chemical reactions within live animals By comparing and contrasting currently available chemical and biological techniques it serves not just as a collection of the pioneering work done in animal based studies but also as a technical guide to help readers decide which tools are suitable and best for their experimental needs The Handbook of In Vivo Chemistry in Mice From Lab to Living System introduces readers to general information about live animal experiments and detection methods commonly used for these animal models It focuses on chemistry based techniques to develop selective in vivo targeting methodologies as well as strategies for in vivo chemistry and drug release Topics include currently available mouse models biocompatible fluorophores radionuclides for

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