

STD XII - CHEMISTRY

Time : 3 hrs.]

MARCH - 2013

[Marks : 70

SECTION - I

Q. 1. Select and write the most appropriate answers from the given alternatives for each sub-question :

[7]

- (i) In body centred cubic structure the space occupied is about _____.
 (a) 68% (b) 53% (c) 38% (d) 32%
- (ii) For a gaseous reaction the unit of rate of reaction is _____.
 (a) L atm s^{-1} (b) $\text{atm mol}^{-1} \text{s}^{-1}$ (c) atm s^{-1} (d) mol s
- (iii) Which of the following compounds contains S = O as well as S = S bonds?
 (a) Sulphuric acid (b) Thiosulphuric acid
 (c) Sulphurous acid (d) Thiosulphurous acid
- (iv) Which of the following solutions shows maximum depression in freezing point?
 (a) 0.5 M Li_2SO_4 (b) 1 M NaCl (c) 0.5 M $\text{Al}_2(\text{SO}_4)_3$ (d) 0.5 M BaCl_2
- (v) For a chemical reaction $dS = -0.035 \text{ kJ/K}$ and $dH = -20 \text{ kJ}$. 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

$$\text{Cu}_{(s)} \mid \text{Cu}_{(aq)}^{++} (1\text{M}) \parallel \text{Ag}_{(aq)}^{++} (1\text{M}) \mid \text{Ag}_{(s)}$$
 . 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) Fe_2O_3 is reduced to spongy iron near the top of blast furnace by _____.
 (a) H_2 (b) CaO (c) SiO_2 (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 PCl_3 and PCl_5 .
- (v) Prove that $\Delta H = \Delta U + \Delta nRT$. What is the condition under which $\Delta U = \Delta H$?
- (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 HNO_3 in a solution containing 12.2% HNO_3 . (Given - atomic masses : H = 1, N = 14, O = 16)
- (ii) Consider the reaction -



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

- (a) $-\frac{d[\text{I}^{-}]}{dt}$ (b) $-\frac{d[\text{S}_2\text{O}_8^{2-}]}{dt}$ (c) $-\frac{d[\text{I}_3^{-}]}{dt}$

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Mastering the TEE Peter Sheahan, Liz Ramsay, 2003 Excel HSC Chemistry Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp SPECIFICATION Softcover perfect bound 280 mm x 210 mm STATUS New edition PUBLICATION DATE April 2008 The EXCEL HSC Chemistry guide is directly linked to the syllabus with every single dot point of the HSC Chemistry syllabus appearing in the margin of the book You can write in the guide so your study is focused and your notes are structured This guide comes in a brand new format that makes even better use of your study time up to date coverage of the core topics plus 3 Option topics Industrial Chemistry Shipwrecks Corrosion and Conservation and Forensic Chemistry this guide is organised just like the HSC syllabus so the students learn to section the theoretical part is under routine headings and the students section the practical part is under headings like First hand Second hand and Investigations and Problem Solving %this way you will be able to see at a glance what the theoretical and practical work is all main headings in each chapter 1 1 2 1 etc are directly from the syllabus word for word %this way you can easily match the Excel guide to the syllabus an alphabetical list of all the key definitions and concepts you should know from each chapter %an efficient way of learning all the definitions in one go chapter syllabus checklist with every single dot point listed in checklist form for each chapter %a fantastic way of testing that you know all the work hundreds of key concept questions with answers %questions that test you recall of knowledge in each chapter HSC type questions for every section in each chapter with clock icons to tell you how much time you will have to answer the questions in the HSC %this way you can test yourself on HSC type questions under HSC type time pressure an examiner maximiser feature ticks to show the mark distribution and answers to all HSC type questions %all you need to answer HSC type questions two sample HSC papers with an examiner maximiser feature plus answers %not one but two up to date sample papers the Excel syllabus summary notes a detachable section at the end of the guide where every single dot point of each chapter is summarised for you% a comprehensive and compact summary of the whole course in 32 pages *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 classrooms 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 *Teaching Modern Foreign Languages in Secondary Schools* Ann Swarbrick, 2013-10-11 A companion to *Aspects of Teaching Secondary Modern Foreign Languages* this book charts developments during the past few decades of reform in MFL teaching considering the origins of these reforms and analysing their impact on the classroom The reader is divided into four sections Controversies and disagreements is an overview of changes to MFL teaching and learning during the last thirty years MFL schools and society looks at the role of MFL in a wider social and educational context Developing strategy looks at how more effective MFL teaching might be achieved Research and the MFL teacher looks at the implications for classroom practice of recent research into MFL teaching and Learning *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 radiodiagnosis radiotherapy live animal imaging techniques such as positron emission tomography PET imaging magnetic resonance imaging MRI ultrasound imaging hybrid imaging biocompatible chemical reactions ligand directed nucleophilic substitution chemistry biorthogonal prodrug release strategies and various selective targeting strategies for live animals Completely covers current techniques of in vivo chemistry performed in live animals Describes general information about commonly used live animal experiments and detection methods Focuses on chemistry based techniques to develop selective in vivo targeting methodologies as well as strategies for in vivo chemistry and drug release Places emphasis on material properties required for the development of appropriate

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Effect Levels may be used in the process of establishing a dose response relationship These denote the level of exposure at which there is no significant increase in adverse effects in the exposed population when compared to an appropriate control Such a scientifically defensible threshold allows us to propose health based exposure limits for genotoxic carcinogens This book describes the various cellular defence mechanisms individually and explains how they are regulated The processes covered include metabolic inactivation epigenetic regulation scavenging mechanisms DNA repair and apoptosis It also considers dose dependent threshold mechanisms of carcinogenesis and the rate limiting parameters Aimed at graduate level and above the book discusses the consequences of genotoxic evaluation and urges readers to question the idea that even low exposures present a cancer risk 2012-2013 College Admissions Data Sourcebook Southeast Edition , *Index Medicus* ,2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Abstract Bulletin of the Institute of Paper Chemistry** ,1982 **Chemist and Druggist** ,1912

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based on aisc oversize holes the structural steel educational council recommendations and concrete contractor anchor bolt placement techniques ascc concrete contractors recommend the following tolerance for each bolt location 3 4 and 7 8 in diameter bolts 1 4 in 1 1 1 4 and 1 1 2 in diameter bolts 3 8 in and 1 3 4 2 and

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