

# 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)  $\text{L atm s}^{-1}$  (b)  $\text{atm mol}^{-1} \text{s}^{-1}$  (c)  $\text{atm s}^{-1}$  (d)  $\text{mol s}$
- (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  $\text{Li}_2\text{SO}_4$  (b) 1 M NaCl (c) 0.5 M  $\text{Al}_2(\text{SO}_4)_3$  (d) 0.5 M  $\text{BaCl}_2$
- (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)  $\text{Fe}_2\text{O}_3$  is reduced to spongy iron near the top of blast furnace by \_\_\_\_\_.  
 (a)  $\text{H}_2$  (b) CaO (c)  $\text{SiO}_2$  (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  $\text{PCl}_3$  and  $\text{PCl}_5$ .
- (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  $\text{HNO}_3$  in a solution containing 12.2%  $\text{HNO}_3$ . (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)  $-\frac{d[\text{I}_3^-]}{dt}$

# Hsc Past Papers 201

**Amy B. Voorhees**



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1937 Roosevelt struck back with an audacious plan to expand the Court to fifteen justices and to pack the new seats with liberals who shared his belief in a living Constitution

**Probationary Officers Exam**, **Benjamin V. Cohen** William Lasser, 2008-10-01 A key figure in the administrations of Franklin D Roosevelt and Harry S Truman Benjamin V Cohen 1894 1983 was a major architect of public policy from the first days of FDR's presidency through the early days of the Cold War Although he kept a low public profile Cohen's influence extended across a wide range of domestic and foreign policy initiatives In this biography William Lasser offers the first account of Ben Cohen's life and career and an assessment of his contribution to the origin and development of modern American liberalism Cohen's life provides an extraordinary lens through which to view the development of the evolving political philosophy of the Roosevelt and Truman presidencies A brilliant lawyer noted for his good judgment and experience Cohen was a leading member of FDR's Brain Trust developing ideas drafting legislation lobbying within the administration and in Congress and defending the New Deal in court The book traces his contributions to domestic financial policy his activities during the war years in London and Washington his service as counselor to the State Department and member of the American delegation to the United Nations after the war and his role in the American Zionist movement From Cohen's life and work Lasser draws important insights into the development of the New Deal and the evolution of postwar liberalism

*Medical Education in India*, 1986 **The Doctor's Handbook** Tony White, 2010 Many doctors do not receive training early in their careers on the broad range of non clinical aspects of their work and confront day to day issues for which initial medical education has failed to prepare them Experienced doctors and consultants can also experience a similar lack of accessible reference material on these aspects of their role and for the non clinical training of their juniors This book and its companion volume *The Doctor's Handbook Part 1 managing your role beyond clinical medicine* have been written to address these and other needs Previously published as *The Specialist Registrar and New Consultant Handbook* these completely revised and reconfigured volumes reflect the changing everyday work of specialist trainees registrars and consultants Topics covered in Volume 2 include

Australian Books in Print 1999 K G Saur Books, 1999-04 Excellent coverage essential to worldwide bibliographic coverage American Reference Books Annual This comprehensive reference provides current finding ordering information on more than 123 000 in print books published in Australia You'll also find brief profiles of more than 12 000 publishers distributors whose titles are represented as well as information on trade associations local agents of overseas publishers literary awards more From Thorpe

*Parliamentary Papers* Great Britain. Parliament. House of Commons, 1912 Authorization of Appropriations for and Oversight of the U.S. International Trade Commission and Comparability of Trade and Production Statistics United States. Congress. House. Committee on Ways and Means. Subcommittee on Trade, 1977 Radical Relations Daniel W. Rivers, 2013-09-03 In a book based on extensive archival research and 130 interviews conducted nationwide the author looks at lesbian and gay parenthood from the early 1950s through today

**Medical Optical Imaging and Virtual Microscopy Image Analysis**

Yuankai Huo, Bryan A. Millis, Yuyin Zhou, Xiangxue Wang, Adam P. Harrison, Ziyue Xu, 2022-09-16 This book constitutes the refereed proceedings of the 1st International Workshop on Medical Optical Imaging and Virtual Microscopy Image Analysis MOVI 2022 held in conjunction with the 25th International Conference on Medical Imaging and Computer Assisted Intervention MICCAI 2022 in Singapore Singapore in September 2022 The 18 papers presented at MOVI 2022 were carefully reviewed and selected from 25 submissions The objective of the MOVI workshop is to promote novel scalable and resource efficient medical image analysis algorithms for high dimensional image data analysis from optical imaging to virtual microscopy **International Perspectives on the Teaching of Literature in Schools** Andrew Goodwyn, Cal Durrant, Louann Reid, Lisa Scherff, 2017-08-31 Literature teaching remains central to the teaching of English around the world This edited text brings together expert global figures under the banner of the International Federation for the Teaching of English IFTE The book captures a state of the art snapshot of leading trends in current literature teaching as well as detailing predicted trends for the future The expert scholar and leading teacher contributors coming from a wide range of countries with fascinatingly diverse approaches to literature teaching cover a range of central and fundamental topics literature and diversity digital literatures pedagogy and reader response mother tongues the business of reading publishers adolescent fiction and censorship assessing responses to literature the changing definitions of literature and multimodal texts The collection reviews the consistently important place of literature in the education of young people and provides international evidence of its enduring value and contribution to education resisting the functionalist and narrowly nationalist perspectives of misguided government authorities International Perspectives on the Teaching of Literature in Schools will be of value to researchers PhD students literature scholars practitioners teacher educators teachers and all those in the extensive academic community interested in English and literacy around the world A New Christian Identity Amy B. Voorhees, 2021-02-10 In this study of Christian Science and the culture in which it arose Amy B Voorhees emphasizes Mary Baker Eddy's foundational religious text Science and Health with Key to the Scriptures Assessing the experiences of everyday adherents after Science and Health's appearance in 1875 Voorhees shows how Christian Science developed a dialogue with both mainstream and alternative Christian theologies Viewing God's benevolent allness as able to heal human afflictions through prayer Christian Science emerged as an anti-mesmeric restorationist form of Christianity that interpreted the Bible and approached emerging modern medicine on its own terms Voorhees traces a surprising story of religious origins cultural conversations and controversies She contextualizes Christian Science within a wide swath of cultural and religious movements showing how Eddy and her followers interacted regularly with Baptists Methodists Congregationalists Catholics Jews New Thought adherents agnostics and Theosophists Influences flowed in both directions but Voorhees argues that Christian Science was distinct not only organizationally as scholars have long viewed it but also theologically a singular expression of Christianity engaging modernity with an innovative healing rationale Information Systems for Crisis

Response and Management in Mediterranean Countries Narjès Bellamine Ben Saoud, Carole Adam, Chihab Hanachi, 2015-10-15 This book constitutes the refereed proceedings of the Second International Conference on Information Systems for Crisis Response and Management in Mediterranean Countries ISCRAM med 2015 held in Tunis Tunisia in October 2015 The objectives of the ISCRAM med conference are to provide an outstanding opportunity and an international forum for local and international researchers practitioners and policy makers to address and discuss new trends and challenges with respect to information systems for crisis response and disaster management The 14 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 41 submissions They are organized in topical sections on social computing modeling and simulation information and knowledge management engineering of emergency management systems and decision support systems and collaboration

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**Foreign Direct Investment in the United States** United States. Department of Commerce, 1976

*Terotechnology XII* Norbert Radek, 2022-09-05 Terotechnology is concerned with the installation commissioning maintenance replacement and removal of plant machinery and equipment It also includes operation and design aspects and related subjects and practices Keywords Flow Control Valve Boiling Heat Transfer Laser Treated Heaters Laser Micro Machining Surface Laser Micropatterning Adhesive Joints WC Co Coatings Diamond Like Carbon Coatings TiO2 Coatings Weathering of Paint Systems Rolling Stock Cellular Automata High Strength Concrete Concrete Composites Thermal Sensations Intelligent Buildings Sulphuric Acid Corrosion Resistance of Coatings on Steel Evaluating the Technological Modernity of Machines Computer Simulation Techniques Production Management TNT Storage Powder Metallurgy Graphene Oxide Rail Head Operational Crack Aluminum Castings Non Destructive Testing Automotive Industry Case Studies Quality Assessment Bearing Shell Casting Rail Vehicles Fuels in Rail Transport Fire Hazard Mobility Assessment for Tracked Vehicles Laser Welding Helical Metal Expansion Joints Steel Joints Flash Butt Welded Rail Joints Gas Face Seals Design Parameters of Ball Bearing Neural Network Structure Prescriptive Maintenance Strategy Unmanned Aerial Vehicles Urban Traffic Noise Textile Cleaning

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