

# 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 Board Pune Chemistry Important Notes

**Liying Dong**



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### **Table of Contents Hsc Board Pune Chemistry Important Notes**

1. Understanding the eBook Hsc Board Pune Chemistry Important Notes
  - The Rise of Digital Reading Hsc Board Pune Chemistry Important Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Board Pune Chemistry Important Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hsc Board Pune Chemistry Important Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Board Pune Chemistry Important Notes
  - Personalized Recommendations
  - Hsc Board Pune Chemistry Important Notes User Reviews and Ratings
  - Hsc Board Pune Chemistry Important Notes and Bestseller Lists

5. Accessing Hsc Board Pune Chemistry Important Notes Free and Paid eBooks
  - Hsc Board Pune Chemistry Important Notes Public Domain eBooks
  - Hsc Board Pune Chemistry Important Notes eBook Subscription Services
  - Hsc Board Pune Chemistry Important Notes Budget-Friendly Options
6. Navigating Hsc Board Pune Chemistry Important Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Hsc Board Pune Chemistry Important Notes Compatibility with Devices
  - Hsc Board Pune Chemistry Important Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc Board Pune Chemistry Important Notes
  - Highlighting and Note-Taking Hsc Board Pune Chemistry Important Notes
  - Interactive Elements Hsc Board Pune Chemistry Important Notes
8. Staying Engaged with Hsc Board Pune Chemistry Important Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc Board Pune Chemistry Important Notes
9. Balancing eBooks and Physical Books Hsc Board Pune Chemistry Important Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc Board Pune Chemistry Important Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hsc Board Pune Chemistry Important Notes
  - Setting Reading Goals Hsc Board Pune Chemistry Important Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Board Pune Chemistry Important Notes
  - Fact-Checking eBook Content of Hsc Board Pune Chemistry Important Notes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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