

# 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 2013 Chemistry Question Old Syllabus

**R Bogdan**



## **Hsc 2013 Chemistry Question Old Syllabus:**

This book delves into Hsc 2013 Chemistry Question Old Syllabus. Hsc 2013 Chemistry Question Old Syllabus is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Hsc 2013 Chemistry Question Old Syllabus, encompassing both the fundamentals and more intricate discussions.

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- Chapter 4: Hsc 2013 Chemistry Question Old Syllabus in Specific Contexts
- Chapter 5: Conclusion

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