

# 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)  $-\frac{d[\text{I}_3^-]}{dt}$

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**Albert James Bernays**



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