OCTOBER - 2014

[Marks: 70

#### SECTION - I

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

[7]

[9]

(i) The Arrhenius equation is \_\_\_\_\_.

(a)  $k = A e^{\frac{RT}{E_a}}$ (b)  $A = k e^{\frac{-E_a}{RT}}$ (c)  $k = A e^{\frac{-RT}{E_a}}$ (d)  $k = A e^{\frac{-E_a}{RT}}$ 

Time: 3 hrs.l

(ii) If the enthalpy of vaporisation of water at 100oC is 186.5 J . mol-1, the entropy of vaporization will be \_\_\_\_\_\_.

(a) 4.0 J . K<sup>-1</sup>, mol<sup>-1</sup> (b) 3.0 J . K<sup>-1</sup>, mol<sup>-1</sup> (c) 1.5 J . K<sup>-1</sup>, mol<sup>-1</sup> (d) 0.5 J . K<sup>-1</sup>, mol<sup>-1</sup>

(iii) The atomicity of sulphur in orthorhombic sulphur is \_\_\_\_\_.

(a) 8 (b) 6 (c) 4 (d) 2

(iv) The major binding force in diamond is \_\_\_\_\_\_.

(a) Covalent bond
(b) Ionic bond
(c) Metallic bond
(d) Co-ordinate covalent bond

(v) The boiling point of water at high altitude is low, because \_\_\_\_\_.

(a) the temperature is low.

(b) the atmospheric pressure is low.

(c) the temperature is high.

(d) the atmospheric pressure is high.

(vi) The molar conductivity of cation and anion of salt BA are 180 and 220 mhos respectively. The molar conductivity of salt BA at infinite dilution is \_\_\_\_\_\_.

(a) 90 mhos.cm<sup>2</sup>.

(b) 110 mhos.cm<sup>2</sup>.mol<sup>-1</sup>

(c) 200 mhos.cm<sup>2</sup>.mol<sup>-1</sup>

(d) 400 mhos.cm<sup>2</sup>.mol<sup>-1</sup>

- (vii) What is the process in which concentrated ore is reduced to the corresponding metal by heating at high temperature with a reducing agent?
   (a) Polling (b) Pyrometallurgy (c) Hydrometallurgy (d) Calcination
- Q. 2. Answer any THREE of the following:

(i) Describe anomalous behaviour of oxygen as compared with other elements of group 16 with reference to —

(a) Magnetic property

(b) Oxidation state

(c) Hydrides

- (ii) What is the value of  $\Delta S_{aurr.}$  for the following reaction at 298 K 6CO<sub>2(g)</sub> + 6H<sub>2</sub>O<sub>(l)</sub>  $\longrightarrow$  C<sub>6</sub>H<sub>12</sub>O<sub>6(a)</sub> + 6O<sub>2(g)</sub> Given that :  $\Delta G^{\circ} = 2879 \text{ kJ mol}^{-1}$ ,  $\Delta S = -210 \text{ JK}^{-1} \text{ mol}^{-1}$ .
- (iii) Sucrose decomposes in acid solution to give glucose and fructose according to the first order rate law. The half life of the reaction is 3 hours. Calculate fraction of sucrose which will remain after 8 hours.
- (iv) A solution containing 0.73 g of camphor (molar mass 152 g . mol<sup>-1</sup>) in 36.8 g of acetone (boiling point 56.3°C) boils at 56.55°C. A solution of 0.564 g of unknown compound in the same weight of acetone boils at 56.46oC. Calculate the molar mass of the unknown compound.

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### Table of Contents Maharashtra Hsc Paper Solution 2014chemistry

- 1. Understanding the eBook Maharashtra Hsc Paper Solution 2014chemistry
  - The Rise of Digital Reading Maharashtra Hsc Paper Solution 2014chemistry
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Maharashtra Hsc Paper Solution 2014chemistry
  - 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 Maharashtra Hsc Paper Solution 2014chemistry
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maharashtra Hsc Paper Solution 2014chemistry

- Personalized Recommendations
- Maharashtra Hsc Paper Solution 2014chemistry User Reviews and Ratings
- Maharashtra Hsc Paper Solution 2014chemistry and Bestseller Lists
- 5. Accessing Maharashtra Hsc Paper Solution 2014chemistry Free and Paid eBooks
  - Maharashtra Hsc Paper Solution 2014chemistry Public Domain eBooks
  - Maharashtra Hsc Paper Solution 2014chemistry eBook Subscription Services
  - Maharashtra Hsc Paper Solution 2014chemistry Budget-Friendly Options
- 6. Navigating Maharashtra Hsc Paper Solution 2014chemistry eBook Formats
  - o ePub, PDF, MOBI, and More
  - Maharashtra Hsc Paper Solution 2014chemistry Compatibility with Devices
  - Maharashtra Hsc Paper Solution 2014chemistry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maharashtra Hsc Paper Solution 2014chemistry
  - Highlighting and Note-Taking Maharashtra Hsc Paper Solution 2014chemistry
  - Interactive Elements Maharashtra Hsc Paper Solution 2014chemistry
- 8. Staying Engaged with Maharashtra Hsc Paper Solution 2014chemistry
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maharashtra Hsc Paper Solution 2014chemistry
- 9. Balancing eBooks and Physical Books Maharashtra Hsc Paper Solution 2014chemistry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maharashtra Hsc Paper Solution 2014chemistry
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maharashtra Hsc Paper Solution 2014chemistry
  - Setting Reading Goals Maharashtra Hsc Paper Solution 2014chemistry
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maharashtra Hsc Paper Solution 2014chemistry

- Fact-Checking eBook Content of Maharashtra Hsc Paper Solution 2014chemistry
- 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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