

HSC Maharashtra Board question paper: March 2013

Note:

- All questions are compulsory.
- Answer to the two sections are to be written in the same answer book.
- Figure to the right hand side indicate full marks.
- Write balanced chemical equations and draw neat and labelled diagrams wherever necessary.
- Every new question must be started on a new page.
- Use of logarithmic table is allowed.

CHEMISTRY: SECTION – I

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question: [7]

- In body centred cubic structure the space occupied is about
(A) 68 % (B) 53 %
(C) 38 % (D) 32 %
- For a gaseous reaction the unit of rate of reaction is
(A) L atm s^{-1} (B) $\text{atm mol}^{-1} \text{s}^{-1}$
(C) atm s^{-1} (D) mol s
- 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
- Which of the following solutions shows maximum depression in freezing point?
(A) 0.5 M Li_2SO_4 (B) 1 M NaCl
(C) 0.5 M $\text{Al}_2(\text{SO}_4)_3$ (D) 0.5 M BaCl_2
- For a chemical reaction $\Delta S = -0.035 \text{ kJ/K}$ and $\Delta H = -20 \text{ kJ}$.
(A) 5.14 K (B) 57.14 K
(C) 571.4 K (D) 5714.0 K
- The standard e.m.f of the following cell is 0.463 V
 $\text{Cu} | \text{Cu}_{(0.01)}^{++} || \text{Ag}_{(0.01)}^{+} | \text{Ag}$. If $E_{\text{Ag}}^{\circ} = 0.800 \text{ V}$,
What is the standard potential of Cu electrode?
(A) 1.137 V (B) 0.337 V
(C) 0.463 V (D) -0.463 V
- Fe_2O_3 is reduced to spongy iron near the top of blast furnace by
(A) H_2 (B) CaO
(C) SiO_2 (D) CO

Hsc Questions 2013

M Lipman



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Table of Contents Hsc Questions 2013

1. Understanding the eBook Hsc Questions 2013
 - The Rise of Digital Reading Hsc Questions 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Questions 2013
 - 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 Questions 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Questions 2013
 - Personalized Recommendations

- Hsc Questions 2013 User Reviews and Ratings
- Hsc Questions 2013 and Bestseller Lists
- 5. Accessing Hsc Questions 2013 Free and Paid eBooks
 - Hsc Questions 2013 Public Domain eBooks
 - Hsc Questions 2013 eBook Subscription Services
 - Hsc Questions 2013 Budget-Friendly Options
- 6. Navigating Hsc Questions 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Questions 2013 Compatibility with Devices
 - Hsc Questions 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Questions 2013
 - Highlighting and Note-Taking Hsc Questions 2013
 - Interactive Elements Hsc Questions 2013
- 8. Staying Engaged with Hsc Questions 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Questions 2013
- 9. Balancing eBooks and Physical Books Hsc Questions 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Questions 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Questions 2013
 - Setting Reading Goals Hsc Questions 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Questions 2013
 - Fact-Checking eBook Content of Hsc Questions 2013

- 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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