

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

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M. Cusiter, V. Cusiter



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