HSC Maharashtra Board question paper: March 2013

Note:

i. All question are compulsory
ii. Answer to the two sections are to be written in the same answer book.
iii. Figure to the right hand side indicate full marks.
iv. Write balanced chemical equations and draw neat and labelled diagrams wherever necessary.
v. Encery new question must be started on a new page.
vi. 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]

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) L atm s^{-1} (B) atm mol^{-1} s^{-1}
   (C) atm s^{-1} (D) 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 Li_2SO_4 (B) 1 M NaCl
   (C) 0.5 M $Al_2(SO_4)_3$ (D) 0.5 M $BaCl_2$

v. For a chemical reaction $\Delta S = $ 0.035 kJ/K and $\Delta H = $ 20kJ.
   (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
   $Cu | Cu_{(aq)}^{++} || Ag_{(aq)}^{+} | Ag$. If $E_{Ag}^{o} = 0.800$ 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

vii. Fe_2O_3 is reduced to spongy iron near the top of blast furance by
   (A) H_2 (B) CaO
   (C) SiO_2 (D) CO

Hsc Questions 2013

Zhe Xu

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