Guess Paper - 2015
Class – XII
Subject –Chemistry

Note :- Attempt all Questions. **MM 20**

Q-1 Classify as being either a p-type or n-type semiconductor (2)
(i) Ge doped with In (ii) B doped with si

Q-2 Explain Zno is white, on heating it becomes yellow. (2)

Q-3 Out of simple. B.C.C. and C.C.P. which one has highest packing efficiency (2)

Q-4 Analysis shows that nickel oxide has formula $Ni_{0.98}$ $O_{1.00}$ what fraction of the nickel exists as (2) $Ni^{++}$and Ni^{3+}

Q-5 Why soda water bottle fizzes out when cap in opened. (2)

Q-6 What would be the value of Vant's Hoff factor for a dilute solution of K_2SO_4 in water. (2)

Q-7 An antifreeze solution in prepared solution is prepared from 222.6g of ethylene glycol (2) $C_2H_4(OH)_2$ and 200g pf water. Calculate the molality of the solution. If the density of this solution be $1.072gml^{-1}$. What will be the molarity of solution.

Q.8 Write short notes on micelle and shape selective catalyst with example (2)

Q.9 Calculate the emf of the cell
*Mg/ Mg*2+(0.001*M* //*Cu*2+ (0.001*M*) C (2)
Cu2+/Cu= 0.34 ;Mg2+/Mg=- 2.375

Q.10. what is the difference between physisorption & chemisorptions (2)

Q.11. A certain reaction is 50% complete in 20 min at 300K and the same reaction is again 50% complete in 5 min at 350K. Calculate the activation (2)
energy if it is a first order reaction.
(R = 8.314J K–1 mol–1, log 4 = 0.602)

Q.12 The rate constant for the first order decomposition of H2O2 is given by the (2)
Following equation log k = 14.34 – 1.25 × 104 K/T. Calculate Ea for this reaction and at what temperature will its half-life be 256 minutes.

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DON & DONNA CONVENT SHAHJAHANPUR

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