

Time: 20 Minutes**OBJECTIVE - - - - Code : 6485****Marks: 17**

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank.

1. 1 - An aqueous solution of ethanol in water may have vapour pressure _____.
 (A) equal to that of water (B) equal to that of ethanol
 (C) more than that of water (D) less than that of water
- 2 - The unit of the rate constant is the same as that of the rate of reaction in _____ order.
 (A) first (B) second (C) zero (D) third
- 3 - Amorphous solids _____.
 (A) have sharp melting points
 (B) undergo clean cleavage when cut with knife
 (C) have perfect arrangement of atoms
 (D) can possess small regions of orderly arrangement of atoms
- 4 - In endothermic reactions, the heat content of the _____.
 (A) products is more than that of reactants (B) reactants is more than that of products
 (C) surroundings increases (D) reactants and products is equal
- 5 - When 6d orbital is completed, the entering electron goes into _____.
 (A) 7f (B) 7s (C) 7p (D) 7d
- 6 - Orbitals having same energy are called _____.
 (A) hybrid orbitals (B) valence orbitals (C) degenerate orbitals (D) d-orbitals
- 7 - Solvent extraction is controlled by _____.
 (A) distribution law (B) Newton's law (C) law of mass action (D) Graham's law
- 8 - The mass of one mole of electrons is _____.
 (A) 1.008 mg (B) 0.55 mg (C) 0.184 mg (D) 1.673 mg
- 9 - VSEPR theory was developed by _____.
 (A) Sidgwick and Powell (B) Sidgwick and Nyholm
 (C) Powell and Gillespie (D) Nyholm and Gillespie
- 10 - If the salt bridge is not used between two half cells, then the voltage _____.
 (A) decreases rapidly (B) decreases slowly (C) does not change (D) drops to zero
- 11 - An excess of aqueous silver nitrate is added to aqueous barium chloride and precipitate is removed by filtration. What are main ions in the filtrate?
 (A) Ag^+ and NO_3^- only (B) Ag^+ and Ba^{+2} and NO_3^-
 (C) Ba^{+2} and NO_3^- only (D) Ba^{+2} and NO_3^- and Cl^-
- 12 - A limiting reactant is the one which _____.
 (A) is taken in lesser quantity in gm as compared to other reactants
 (B) is taken in lesser quantity in volume as compared to the other reactants
 (C) gives the maximum amount of the product which is required
 (D) gives the minimum amount of the product under consideration
- 13 - _____ is not used as drying agent in a desiccator.
 (A) water (B) CaCl_2 (C) silica gel (D) phosphorus pentoxide
- 14 - BF_3 shows _____ hybridization.
 (A) sp^2 (B) sp^3 (C) sp (D) sp^3d
- 15 - Equal masses of methane and oxygen are mixed in an empty container at 25°C .
 The fraction of total pressure exerted by oxygen is _____.
 (A) $\frac{1}{3}$ (B) $\frac{8}{9}$ (C) $\frac{1}{9}$ (D) $\frac{16}{17}$
- 16 - The deviation of a gas from ideal behaviour is maximum at _____.
 (A) -10°C and 5.0 atm (B) -10°C and 2.0 atm (C) 100°C and 2.0 atm (D) 0°C and 2.0 atm
- 17 - _____ is a pseudo solid.
 (A) CaF_2 (B) glass (C) NaCl (D) sugar