

ECAT Chemistry MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
|----|--|---|
| 1 | the unreactivity of alkanes is based upon | A. Inertness of sigma bond B. Non-polarity of the bonds C. Both A and B D. None of above |
| 2 | Chlorin heptoxide reacts with water to form: | A. Hypochlorous acid B. Chloric acid C. Perchloric acid D. Chlorine and oxygen |
| 3 | Benzene hexachloride is used as | A. Dye B. Antimaterial drug C. Antibiotic D. Insecticide |
| 4 | The number of unpaired electrons in the p-subshell of oxygen atom | A. 1 B. 2 C. 3 D. 4 |
| 5 | For which of the following sets of quantum numbers and electron will have the highest energy? | A. 3,2,1,1/2 B. 4,2,-1,1/2 C. 4,1,0,-1/2 D. 5,0,0,1/2 |
| 6 | Carboxylic acids functional group is: | A. ----COOH B. ----CO--- C. ----OH D. -----COH |
| 7 | A one thousand dm ³ sample of water contains one gram of iron (iii) ions what is the concentration in parts per million of Fe ³⁺ (aq) in parts per million | A. 0.001 B. 0.01 C. 0.1 D. 1.0 |
| 8 | The amount of heat evolved or absorbed in a chemical reaction, when the molar quantities of products and reactants being the same as represented in chemical equation. is called | A. Heat of reaction B. Free energy of reaction C. Entropy of reaction D. None of these |
| 9 | A complete chemical characterization of a compound must include | A. Qualitative analysis B. Chemical analysis C. Quantitative analysis D. Both a and c |
| 10 | Colour of PCl ₅ is: | A. Red B. Yellowish White C. Grey D. Colourless |
| 11 | Which of the following does not turn Schiff's reagent to pink? | A. Formaldehyde B. Benzaldehyde C. Aceton D. Methyl chloride |
| 12 | The process of osmosis was first discovered by | A. Nollet B. Pfeffer C. Traube D. Dutrochet |
| 13 | Which compound shows hydrogen bonding | A. C ₂ H ₆ B. C ₂ H ₅ Cl C. CH ₃ -O-CH ₃ D. C ₂ H ₅ OH |
| 14 | Treatment of a secondary alcohol with a suitable oxidizing agent (K ₂ Cr ₂ O ₇) results in the formation of | A. Ketone B. Aldehyde C. Ether D. Alkyl halide |
| 15 | Which of the following has more unpaired d-electrons? | A. Zn ²⁺ B. Fe ²⁺ C. Ni ³⁺ D. Cu ²⁺ |

| | | |
|----|--|--|
| | | D. Cu ⁺ |
| 16 | Chloroform is carcinogenic: | A. Heart B. Lungs C. Liver D. Kidney |
| 17 | The element like nitrogen, phosphorus, calcium, are added in large amounts to the soils and are called | A. Nutrients elements B. Basic elements C. Basic elements D. Additives |
| 18 | During the process of crystallization, the hot saturated solution: | A. is cooled very slowly to get large size crystals B. is cooled at a moderate rate to get medium sized crystals of the product C. is evaporated to get the crystals of the products D. is mixed with an immiscible liquid to get the pure crystals of the product. |
| 19 | Chemical equilibrium involving reactants and products in more than one phase is called | A. Static B. Dynamic C. Homogeneous D. Heterogeneous |
| 20 | During the manufacturing process of cement the temperature of the decomposition zone goes up to | A. 600°C B. 800°C C. 1000°C D. 1200°C |