



Sample Multiple Choice Questions

Class :- F.Y.B.Sc.

Subject :- CHEMISTRY PAPER II

Semester :- II

Q.1 Molecules are held together in a crystal by -----

- a) Hydrogen bond b) Electrostatic attraction
c) Vander Waal's attraction d) Dipole-dipole attraction

Q.2 Find the molecule with the maximum dipole moment -----

- a) CH₄ b) NH₃
c) CO₂ d) NF₃

Q.3 The formal charge and P-O bond order in PO₄³⁻ respectively are -----

- a) 0.6, -0.75 b) -0.75, 1.25
c) 1.0, -0.75 d) 1.25, -3

Q.4 Metal that difficult to oxidize are called -----

- a) weak metals b) strong metals
c) strong metals d) ionic metals

Q.5 Find the redox reaction -----

- a) In the atmosphere, O₃ from O₂ by lighting b) The reaction of H₂SO₄ with NaOH
c) Both oxidation and reduction reaction d) Evaporation of water

Q.6 As we move across the period from left to right, the reactivity of metals with oxygen -----

- a) Decreases b) Decreases
c) Remain same d) Zero

Q.7 The most metallic among the following is -----

- a) Na b) K
c) Al d) B

Q.16 The energy difference between boat and twist boat conformation of cyclohexane is.....

- a) 7.2 b) 1.8 c) 11 d) 12

Q.17 The Naphthalene is a.....compound

- a) aromatic b) aliphatic c) olefinic d) saturated

Q.18 The process in which substance gains electrons is called -----

- a) Oxidation b) Reduction c) Hydrogenation d) Sublimation

Q.19 Ionic compounds dissolve readily in polar solvent like -----

- a) Alcohol b) water c) Hydrochloric d) ether

Q.20 The extent of polarization in an ionic compound is given by -----

- a) Formal Rule b) Fajans rule c) VSEPR rule d) None of these

Q.21 Extraction of copper is done by -----

- a) Auto –oxidation b) Auto -reduction c) Reduction d) Oxidation

Q.22 Which of the following is not a weak electrolyte?

- a) Acetic acid b) Formic acid c) Phosphoric acid d) Nitric acid

Q.23 The relation between pH and pOH is

- a) $\text{pH} + \text{pOH} = 14$ b) $\text{pH} - \text{pOH} = 14$
c) $\text{pH} + \text{pOH} = 10$ d) $\text{pH} + \text{pOH} = 24$

Q.24 Which buffer composed of a weak base and its salt with a strong acid?

- a) Acidic buffer b) Basic buffer
c) Neutral Buffer d) acid

Q.25 Pyridine has a six membered ring containing five carbon atoms and one.....atom.

- a) Sulphur b) Nitrogen
c) Oxygen d) Halogen

