

Sainath Education Trust's Rajiv Gandhi College

of Arts, Commerce, & Science.Vashi Navi Mumbai. {Permanently Affiliated to University Of Mumbai} ACCREDITED BY NAAC, GRADE 'B'

Sample Multiple Choice Questions

Class :- S.Y.B.Sc.

Subject :- CHEMISTRY PAPER II

Semester :- IV

- 1) pKa range for feebly acidic cations is between -----
 - a) 6-11.5
 - b) 11.5-14
 - c) 1-6
 - d) 1-14
- 2) Hydration energy calculated using ----- equations
 - a) Latimer
 - b) Drago-way land
 - c) Born Lande
 - d) Kapustinskii
- 3) Oxoanions are formed by ----- atoms and oxide ions
 - a) Non-metals
 - b) Metals
 - c) Metalloids
 - d) Minerals
- 4) ----- is used in pharmaceutical application
 - a) HCl
 - b) MgCl
 - c) H3PO4
 - d) H2O
- 5) The smallest building block of crystal consisting of atoms, ions or molecules whose geometric arrangement when repeated in three dimentionswill generate the complete crystal called as------.
 - a) Unit Cell
 - b) Simple Cell
 - c) Multiple cell
 - d) Space lattice

- 6) What is Bragg equation?
 - a) $2d \sin \Theta = n \lambda$
 - b) $3d \sin \Theta = n \lambda$
 - c) $2n \sin \Theta = d \lambda$
 - d) $3n \sin \Theta = d \lambda$
- 7) ----- type of catalysed reactions in which the catalyst is in the same phase as the reactants.
 - a) Homogeneous
 - b) Heterogeneous
 - c) Amorphous
 - d) Crystalline
- 8) What is the method through which we can prepared catalyst support?
 - a) Soaking the support material
 - b) Spraying the metal salt solution
 - c) Reducing the metal
 - d) All of the given options
- 9)amines are obtained when two hydrogen atom of NH3 is replaced by an alkyl group.
 - a) Primary
 - b) Tertiary
 - c) Quaternary
 - d) Secondr
- 10) The amines react with Mineral acid to form water soluble
 - a) Base
 - b) Acid
 - c) Salt
 - d) Carboxylic acid
- 11) The primary amine reacts with acyl halide to form.....
 - a) N-substituted amide
 - b) Anhydride
 - c) Ester
 - d) carboxylic acid
- 12) ArN2X is general formula for.....compounds
 - a) Diazo
 - b) Halo
 - c) Nitro
 - d) Aldehyde

- 13) Acid is substance ----- donar
 - a) Proton
 - b) Hydronium
 - c) Water
 - d) Neutron
- 14) Formation of adduct is equal to formation of ------ bond
 - a) Covalent
 - b) Ionic
 - c) Co-ordinate
 - d) Dative
- 15) ------which of the following acid autoionization take palce at room temperature
 - a) Nitric acid
 - b) Sulphuric acid
 - c) Hydrochloric acid
 - d) Phosphoric acid
- 16) Fixation of P in soil by ----- matter
 - a) Organic
 - b) Inorganic
 - c) Hybride
 - d) Phosphorus
- 17) Alum's capacity to purify water is due to
 - a) softens hard water
 - b) pathogenic bacteria get destroyed
 - c) impurities' coagulation
 - d) it improves taste
- 18) Which of the following gases is not a greenhouse gas
 - a) CO
 - b) O3
 - c) CH4
 - d) H2O vapour
- 19) Water is often treated with chlorine to ----
 - a) Remove hardness
 - b) Increases oxygen content
 - c) Kill germs
 - d) Remove suspended particles

20) The greatest affinity for haemoglobin is shown by which of the following

- a) NO
- b) CO
- c) O2
- d) CO2
- 21) The type of pollution caused by spraying of DDT
 - a) Air and soil
 - b) Air and water
 - c) Air
 - d) Air,water and soil
- 22) Production of X- rays are done in ------ tube.
 - a) Cathode
 - b) Anode
 - c) Anticthode
 - d) Coolidge
- 23) A cube which content one atom at each corners of the crystal is called as
 - a) Simple Cube
 - b) Multiple cube
 - c) Body centered cube
 - d) Face centered cube
- 24)is saturated heterocyclic compound.
 - a) Tetrahydrofuran
 - b) Furan
 - c) Pyrrole
 - d) Pyridine
- 25) The resonance energy of Benzene is......
 - a) 25
 - b) 29
 - c) 31
 - d) 36