Surface Chemistry NEET Questions

- 1. Which of the following is not a method for coagulation of lyophobic sols?
- (a) By electrophoresis
- (b) By mixing oppositely charged sols
- (c) By adding electrolyte
- (d) By adding a protective colloid

Answer: By adding a protective colloid

- 2. Why is alum added to water containing suspended impurities?
- (a) To make acolloidal solution
- (b) To coagulate the suspended impurities
- (c) To remove impurities of calcium and magnesium
- (d) To protect the colloidal solution from gening precipitated

Answer: To coagulate the suspended impurities

- 3. Movement of dispersion medium under the influence of electric field is known as
- (a) electrodialysis
- (b) electrophoresis
- (c) electroosmosis
- (d) cataphoresis

Answer: electroosmosis

- 4. Which of the following is not a method of removing impurities from a colloidal sol?
- (a) Electrodialysis
- (b) Ultrafiltration
- (c) Ultra centrifugation
- (d) Distillation

Answer: Distillation

- 5. The substances which behave as colloidal solutions at higher concentration are called
- (a) associated colloids
- (b) multimolecular colloids
- (c) macromolecular colloids
- (d) protective colloids

Answer: associated colloids

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6. Which of the following gases present in a polluted area will be adsorbed most easily on the charcoal gas mask?(a) H2
(b) O3
(c) N2
(d) SO2
Answer: SO2
7. Which kind of catalysis can be explained on the basis of adsorption theory? (a) Homogeneous catalysis
(b) Heterogeneous catalysis
(c) Negative catalysis
(d) Auto catalysis
Answer: Heterogeneous catalysis
8. A colloidal system is which liquid is dispersed phase and solid is dispersion medium is classified as (a) gel
(b) sol
(c) emulsion
(d) aerosol
Answer: gel
9. Which of the following will not form a colloidal system? (a) Solid-gas
(b) Liquid-gas
(c) Gas-gas
(d) Gas-liquid
Answer: Gas-gas
10. Fog in an example of colloidal system of(a) liquid in gas
(b) gas in liquid

- (c) solid in gas
- (d) gas in solid

Answer: liquid in gas

- 11. Substances which behave as normal electrolytes solution at low concentration and exhibit colloids properties at higher concentration are called
- (a) lyophilic colloids

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- (b) lyophobic colloids
- (c) macromolecular colloids
- (d) associated colloids

Answer: associated colloids

- 12. Which of the following acts as the best coagulating agent for ferric hydroxide sol?
- (a) Potassium ferrocyanide
- (b) Potassium chloride
- (c) Potassium oxalate
- (d) Aluminium chloride

Answer: Potassium ferrocyanide

- 13. The formation of micelles takes place only above
- (a) critical temperature
- (b) Kraft temperature
- (c) inversion temperature
- (d) absolute temperature

Answer: Kraft temperature

- 14. The size of colloidal particles ranges between
- (a) 10-7 10-8 cm
- (b) 10-9 10-11 cm
- (c) 10-4 10-7 cm
- (d) 10-2 10-3 cm

Answer: 10-4 – 10-7 cm

- 15. At CMC (critical micelle concentration) the surface molecules
- (a) dissociate
- (b) associate
- (c) become bigger in size due to adsorption
- (d) become smaller in size due to decomposition

Answer: associate

- 16. Volume of one mole of any gas at NTP is
- (a) 11.2 litre
- (b) 22.4 litre
- (c) 10.2 litre
- (d) 22.8 litre

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Answer: 22.4 litre

17. Tyndall effect confirms the

- (a) gravity effect on the sol. particles
- (b) light scattering by the sol. particles
- (c) heterogeneous nature of sols.
- (d) Brownian motion of the sol. particles

Answer: heterogeneous nature of sols.

- 18. Which one of the following is alyophilic colloid?
- (a) Milk
- (b) Gum
- (c) Fog
- (d) Blood

Answer: Gum

- 19. Which of the following is not correct for enzyme catalysis?
- (a) The enzyme activity is maximum at optimum pH which is between 5-7
- (b) Each enzyme is specific for a given reaction
- (c) The favourable temperature range of enzyme activity is between 25-37°C
- (d) The enzymatic activity is increased in presence of certain substances.called co-enzymes

Answer: The favourable temperature range of enzyme activity is between 25-37°C

- 20. Presence of traces of arsenious oxide (As2O3) in the reacting gases SO2 and O3 in presence of plantinised asbestos in contact process acts as
- (a) catalytic promoter
- (b) catalytic poison
- (c) dehydrating agent
- (d) drying agent

Answer: catalytic poison