AIPMT 2010

- **1.** Butter is an example of :-
 - (1) Water oil emulsion
 - (2) Gas-liquid colloidal system
 - (3) Oil water emulsion
 - (4) Solid-solid colloidal system

AIPMT Pre. 2011

- **2.** If x is amount of adsorbate and m is amount of adsorbent, which of the following relations is not related to adsorption process?
 - (1) x/m = f(p) at constant T
 - (2) x/m = f(T) at constant p
 - (3) p = f(T) at constant (x/m)
 - (4) $\frac{x}{m} = p \times T$

AIPMT Pre. 2012

- **3.** In Freundlich adsorption isotherm, the value of 1/n is:
 - (1) 1 in case of physical adsorption
 - (2) 1 in case of chemisorption
 - (3) between 0 and 1 in all cases
 - (4) between 2 and 4 in all cases
- **4.** Which one of the following statements is **incorrect** about enzyme catalysis?
 - (1) Enzymes are denaturated by ultraviolet rays and at high temperature
 - (2) Enzymes are least reactive at optimum temperature
 - (3) Enzymes are mostly proteinous in nature
 - (4) Enzyme action is specific
- **5.** The protecting power of lyophilic colloidal sol is expressed in terms of:
 - (1) Critical micelle concentration
 - (2) Oxidation number
 - (3) Coagulation value
 - (4) Gold number

NEET-I 2014

- **6.** Which property of colloids is **not** dependent on the charge on colloidal particles ?
 - (1) Coagulation
- (2) Electrophoresis
- (3) Electro osmosis
- (4) Tyndall effect

- **7.** Which of the following statements is correct for the spontaneous adsorption of a gas?
 - (1) ΔS is negative and, therefore, ΔH should be highly positive.
 - (2) ΔS is negative and therefore, ΔH should be highly negative.
 - (3) ΔS is positive and, therefore, ΔH should be negative.
 - (4) ΔS is positive and, therefore, ΔH should also be highly positive.

NEET-I 2016

- **8.** Which one of the following characteristics is associated with adsorption?
 - (1) ΔG is negative but ΔH and ΔS are positive
 - (2) ΔG , ΔH and ΔS all are negative
 - (3) ΔG and ΔH are negative but ΔS is positive
 - (4) ΔG and ΔS are negative but ΔH is positive
- **9.** Fog is colloidal solution of :-
 - (1) Liquid in gas
- (2) Gas in liquid
- (3) Solid in gas
- (4) Gas in gas

NEET-II 2016

- 10. The coagulation values in millimoles per litre of the electrolytes used for the coagulation of As_2S_3 are given below:
 - I. (NaCl) = 52,
 - II. $(BaCl_2) = 0.69$,
 - III. $(MgSO_4) = 0.22$

The **correct** order of their coagulating power is

- (1) III > II > I
- (2) III > I > II
- (3) I > II > III
- (4) II > I > III

NEET(UG) 2018

- **11.** On which of the following properties does coagulating power of an ion depend?
 - (1) The magnitude of the charge on the alone
 - (2) Size of the ion alone
 - (3) Both magnitude and sign of the charge of ion
 - (4) The sign of charge on the ion alone

NEET(UG) 2019

- **12.** Which mixture of the solutions will lead to the formation of negatively charged colloidal [AgI] I⁻ sol. ?
 - (1) 50 mL of 1M AgNO $_3$ + 50 mL of 1.5 M KI
 - (2) 50 mL of 1M $AgNO_3 + 50$ mL of 2 M KI
 - (3) 50 mL of 2 M AgNO₃ + 50 mL of 1.5 M KI
 - (4) 50 mL of $0.1 \text{ M AgNO}_3 + 50 \text{ mL of } 0.1 \text{ M KI}$

NEET(UG) 2019 (ODISHA)

13. The correct option representing a Freundlich adsorption isotherm is

(1)
$$\frac{x}{m} = k p^{0.3}$$

(2)
$$\frac{x}{m} = k p^{2.5}$$

(3)
$$\frac{x}{m} = k p^{-0.5}$$

(4)
$$\frac{x}{m} = k p^{-1}$$

NEET (UG) 2020

- **14.** Measuring Zeta potential is useful in determining which property of colloidal solution?
 - (1) Size of the colloidal particles
 - (2) Viscosity
 - (3) Solubility
 - (4) Stability of the colloidal particles

NEET (UG) 2020 (COVID-19)

- **15.** In which of the sols, the colloidal particles are with negative charge?
 - (1) TiO₂
 - (2) Haemoglobin
 - (3) Starch
 - (4) Hydrated $A\ell_2O_3$

NEET (UG) 2021

- **16.** The right option for the statement "Tyndall effect is exhibited by", is:
 - (1) NaCl solution
- (2) Glucose solution
- (3) Starch solution
- (4) Urea solution

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	1	4	3	2	4	4	2	2	1	1	3	1,2	1	4	3
Que.	16														
Ans.	3														