

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

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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) $\frac{x}{m} = p \times T$

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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

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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

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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

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														