

Topic : Surface Chemistry

Type of Questions

Single choice Objective ('-1' negative marking) Q.1 to Q.11

(3 marks 3 min.)

M.M., Min.

[33, 33]

- The protein which acts as an emulsifying agent in milk is named
(A) casein (B) lactose (C) fat (D) lactic acid
- Which of the following natural polymers has the highest gold number ?
(A) gelatin (B) albumin (C) gum arabic (D) potato starch
- Which of the following is not true of Brownian motion ?
(A) the movement is more vigorous for smaller particles.
(B) the movement does not change with time and remains the same for months and years.
(C) the moment does not depend on the temperature
(D) it can be sometimes seen with naked eyes or using a simple microscope at most.
- A colloidal solution has which of the following properties which is not shown by a true solution.
(A) Homogeneity (B) Filterability (C) Tyndall effect (D) Osmotic pressure
- If a bag made of a dialyzing material and containing a mixture of water, dissolved salt, and colloidal dispersed protein were placed in a beaker of pure water, the water would eventually contain
(A) dissolved salt (B) protein
(C) both salt and protein (D) no additional material
- Identify the incorrect statement
(A) Brownian motion and tyndall effect is shown by colloidal particles
(B) Gold number is a measure of the protective power of a lyophilic colloid
(C) The colloidal solution with both the dispersed phase and the dispersion medium in liquid state is called a gel.
(D) Hardy-Schulze rule is related with coagulation
- On adding a few drops of dil HCl to freshly precipitated ferric hydroxide, a red colored colloidal solution is obtained, this is an example of
(A) Protective action (B) dissolution (C) peptisation (D) dialysis
- At the cmc the surfactant molecules
(A) decompose (B) dissociate (C) associate (D) become soluble
- Colloidal particles in a sol can be coagulated by
(A) Heating (B) adding an electrolyte
(C) adding oppositely charged sol (D) any of the above
- A colloidal solution of a solid as dispersed phase and liquid as dispersion medium is known as :
(A) Gel (B) Sol (C) Solid foam (D) Emulsion
- Which of the following process is not based on adsorption?
(A) catalysis (B) chromatography
(C) printing of photograph (D) decolorization of sugar

Answer Key

DPP No. # 61

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|-----|-----|----|-----|----|-----|----|-----|-----|-----|
| 1. | (A) | 2. | (D) | 3. | (C) | 4. | (C) | 5. | (A) |
| 6. | (C) | 7. | (C) | 8. | (C) | 9. | (D) | 10. | (B) |
| 11. | (C) | | | | | | | | |

