PHYSICAL / INORGANIC CHEMISTRY

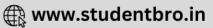


DPP No. 61

Total Marks: 33

Max. Time: 33 min.

Type of Questions M.M., M Single choice Objective ('-1' negative marking) Q.1 to Q.11 (3 marks 3 min.) [33, 33]						
omg.	e diffice objective (i negative marking, s	(0	marks o mm.,	[00, 00]	
1.	The protein which ac (A) casein	ts as an emulsifying ag (B) lactose	ent in milk is named (C) fat	(D) lactic aci	d	
2.	Which of the followin (A) gelatin	g natural polymers has (B) albumin	the highest gold numb (C) gum arabic	er ? (D) potato starch		
3.	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.					
4.	A colloidal solution had (A) Homogeneity	as which of the followin (B) Filterability	g properties which is no (C) Tyndall effect	ot shown by a true s (D) Osmotic		
5.	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					
6.	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					
7.	On adding a few drops of dil HCl to freshly precipitated ferric hydroxide, a red colored colloidal solution obtained, this is an example of (A) Protective action (B) dissolution (C) peptisation (D) dialysis					
8.	At the cmc the surfaction (A) decompose	,	(C) associate	(D) become	soluble	
9.	Colloidal particles in a sol can be coagulated b (A) Heating (C) adding oppositely charged sol		(B) adding an elec	(B) adding an electrolyte (D) any of the above		
10.	A colloidal solution of (A) Gel	f a solid as dispersed p (B) Sol	hase and liquid as disp (C) Solid foam	e and liquid as dispersion medium is known as : (C) Solid foam (D) Emulsion		
11.	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

1. (A)

2. (D)

7.

(C)

3. (C)

4. (C)

5. (A)

6. (C)

11. (C)

8. (C)

9. (D)

10. (B)

