PYQSide

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NEET SURFACE CHEMISTRY — COLLOIDS — PYQS

Max. Marks: 60 **Questions:** 15

Section A (MCQ) — 15 questions

Q.1 Pumice stone is an example of - [NEET (UG) 2023]

(1) gel (2) solid sol (3) foam (4) sol

Scan or tap for the full solution

Q.2 Given below are two statements

Statement-I: In the coagulation of a negative sol, the flocculating power of the three given ions is in the order $Al^{3+} > Ba^{2+} > Na^{+}$

Statement-II: In the coagulation of a positive sol, the flocculating power of the three given salts is in the order $NaCl > Na_2SO_4 > Na_3PO_4$

In the light of the above statements, choose the most appropriate answer from the options given below [NEET (UG) 2022]

(1) Both Statement-I and Statement-II are correct.

(2) Both Statement-I and Statement-II are incorrect.

(3) Statement-I is correct but Statement-II is incorrect.

(4) Statement-I is incorrect but Statement-II is correct.

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Q.3 The right option for the statement "Tyndall effect is exhibited by", is : [NEET (UG) 2021]

(1) Urea solution (2) NaCl solution

(3) Glucose solution (4) Starch solution

Scan or tap for the full solution

Q.4 Measuring Zeta potential is useful in determining which property of colloidal solution? [NEET (UG) 2020]

(1) Solubility

(2) Stability of the colloidal particles

(3) Size of the colloidal particles

(4) Viscosity

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Q.5 Which mixture of the solution will lead to the formation of negatively charged colloidal [AgI] I^- sol. ? [NEET (UG) 2019]

(1) 50 mL of 2 M $AgNO_3$ + 50 mL of 1.5 M KI

(2) 50 mL of 0.1 M $AgNO_3$ + 50 mL of 0.1 M KI

(3) 50 mL of 1 M $AgNO_3$ + 50 mL of 1.5 M KI

(4) 50 mL of 1 M $AgNO_3$ + 50 mL of 2 M KI

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Q.6 On which of the following properties does the coagulating power of an ion depend? [NEET 2018]

(1) The magnitude of the charge on the ion alone

(2) Size of the ion alone

(3) Both magnitude and sign of the charge on the ion

(4) The sign of charge on the ion alone

Scan or tap for the full solution

Q.7 Fog is a colloidal solution of [NEET 2016 (Phase 1)]

(1) solid in gas (2) gas in gas

(3) liquid in gas (4) gas in liquid.

Scan or tap for the full solution

Q.8 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 [NEET 2016 (Phase 2)]

(1) I > II > III (2) II > I > III

(3) III > II > I (4) III > I > II

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Q.9 Which property of colloidal solution is independent of charge on the colloidal particles? [AIPMT 2015 (Cancelled)]

(1) Electro-osmosis (2) Tyndall effect

(3) Coagulation (4) Electrophoresis

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Q.10 Which property of colloids is not dependent on the charge on colloidal particles? [AIPMT 2014]

(1) Coagulation (2) Electrophoresis

(3) Electro-osmosis (4) Tyndall effect

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Q.11 The protecting power of lyophilic colloidal sol is expressed in terms of [AIPMT 2012 (Prelims)]

(1) coagulation value

(2) gold number

(3) critical micelle concentration

(4) oxidation number

Scan or tap for the full solution

Q.12 Which one of the following forms micelles in aqueous solution above certain concentration? [AIPMT 2005]

(1) Dodecyl trimethyl ammonium chloride

(2) Glucose

(3) Urea

(4) Pyridinium chloride

Scan or tap for the full solution

Q.13 Which of the following forms cationic micelles above certain concentration? [AIPMT 2004]

(1) Sodium dodecyl sulphate

(2) Sodium acetate

(3) Urea

(4) Cetyltrimethylammonium bromide.

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Q.14 Position of non-polar and polar part in micelle [AIPMT 2002]

(1) polar at outer surface but non-polar at inner surface

(2) polar at inner surface but non-polar at outer surface

(3) distributed over all the surface

(4) are present in the surface only

Scan or tap for the full solution

Q.15 Which one of the following methods is commonly used for the destruction of a colloid? [AIPMT 2000]

(1) Dialysis

(2) Condensation

(3) Filtration by animal membrane

(4) By adding electrolyte

Scan or tap for the full solution

ANSWER KEY

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