

PHYSICAL PHARMACY

- 1. Dilatant flow is exhibited by**
 - (A) Flocculated suspensions
 - (B) Natural gums
 - (C) Suspensions consisting of more than 50% solid phase
 - (D) All the above
- 2. Surface tension of water**
 - (A) 75.6 dynes/cm at 0° C
 - (B) 72.8 dynes/cm at 20° C
 - (C) 63.5 dynes/cm at 75° C
 - (D) All the above
- 3. The concentration of surfactant at which micelles are formed is called**
 - (A) Critical surfactant concentration
 - (B) Critical micellar concentration
 - (C) Kraft point
 - (D) Cloud point
- 4. Which potential is responsible for stabilization of disperse systems**
 - (A) Zeta potential
 - (B) Electrokinetic potential
 - (C) Nernst potential
 - (D) Both A & B
- 5. Protective property of colloids is expressed in terms of**
 - (A) Coacervation
 - (B) Stabilization
 - (C) Gold number
 - (D) Solubilization
- 6. The change in specific rotation of polarized light is termed as**
 - (A) Faradays effect
 - (B) Cotton effect
 - (C) Resonance effect



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(D) Refractive effect

7. Class-I method of adjusting tonicity explains

- (A) Addition of NaCl or some other agents to the solution of the drug to lower vapour pressure
- (B) Addition of NaCl or some other agents to the solution of the drug to lower osmotic pressure
- (C) Addition of NaCl or some other agents to the solution of the drug to lower freezing point of the solution to -0.52°C
- (D) Sufficient quantity of water is added to the drug to make it isotonic

8. The internal reference electrode of glass membrane electrode is

- (A) Silver – Silver chloride electrode
- (B) Calomel electrode
- (C) Sodium chloride electrode
- (D) Both A & B

9. Units of zero order reaction rate constant

- (A) Moles $\text{lit}^{-1}\text{sec}^{-1}$
- (B) Moles $^{-1}\text{sec}^{-1}$
- (C) Sec^{-1}
- (D) $\text{Lit sec}^{-1}\text{mole}^{-1}$



10. Which of the below colligative property is applicable in the formulation of aerosols

- (A) Lowering of vapour pressure
- (B) Elevation of boiling point
- (C) Depression of freezing point
- (D) Osmotic pressure

11. Solid plug is one of the potential disadvantages of

- (A) Cone and Plate viscometer
- (B) Cub and Bob viscometer
- (C) Creep viscometer
- (D) Hoeppler viscometer

12. Kinematic viscosity is expressed as

- (A) η/ρ
- (B) ρ/η
- (C) $1/\eta$
- (D) $\eta/c\rho$

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13. Velocity of sedimentation of a suspension is expressed by

(A) $v = [d^2(\rho_s - \rho_o)g] / 18\eta$

(B) $v = [d(\rho_s - \rho_o)g] / 18\eta$

(C) $v = [d^2(\rho_s - \rho_o)] / 18\eta$

(D) $v = [d^2(\rho_o - \rho_s)g] / 18\eta$

14. Surface active agents can

(A) Reduce surface tension

(B) Form monomolecular layer

(C) Form multimolecular layer

(D) All the above

15. Natural shrinking of a gel is referred as

(A) Bleeding

(B) Syneresis

(C) Oozing

(D) Swelling



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NOTE:

1. **Key** for the above Physical Pharmacy bits is available with MYBO's GPAT/ NIPER/ PGECET BOOSTER PACK-2
2. If you are interested to help the GPAT/ NIPER/ PGECET Aspirants, you can send 15 bits each with four options (correct answer underlined) to mybogroup@gmail.com After verification, we will publish them on your name at www.mybogroup.com