

Question bank Physical Pharmacy I CBCGS

Q.1 Stalagmometer is used to determine

- a. Bulk density
- b. Surface tension
- c. Porosity
- d. Refractive index

Q.2 Micronization leads to increase in solubility of drug due to

- a. Increased porosity
- b. Increased surface area
- c. Increased angle of repose
- d. Increased surface texture

Q.3 Surfactant are characterized by presence of

- a. Only hydrophilic groups
- b. Only lipophilic groups
- c. Both hydrophilic and lipophilic groups
- d. Neither hydrophilic nor lipophilic groups

Q.4 SLS has an HLB of

- a. 10
- b. 14
- c. 40
- d. 18

Q.5 Adsorption is

- a. Bulk Phenomenon
- b. Surface Phenomenon
- c. Critical Phenomenon
- d. Interactive phenomenon

Q.6 A property that depends on number of particles is called

- a. Constitutive property
- b. Colligative Property
- c. Additive property
- d. Additive and Constitutive property

Q.7 Solubility of drug depends on following factors except

- a. Dielectric constant
- b. pKa
- c. pH of solution
- d. Valency

Q.8 Coulter counter is used to determine

- a. Refractive Index
- b. Surface Area
- c. Particle size
- d. Partition coefficient

Q.9 Raoult's law is applicable to

- a. Real solution
- b. Homogeneous solution
- c. Ideal solution
- d. True suspension

Q.10 Melting of solids is example of

- a. Exothermic reaction
- b. Endothermic reaction
- c. Both exothermic and endothermic reaction
- d. Noyes whitney reaction

Q.11 Solubility of gases in liquid depends upon

- a. Temperature
- b. Pressure
- c. Salting out
- d. All the above

Q.12 Noyes whitney equation is used to study

- a. Diffusion
- b. Osmosis
- c. Dissolution
- d. Solubility

Q.13 Flocculated suspension forms

- a. Loose cake easy to resuspend
- b. Hard cake difficult to resuspend
- c. Loose aggregates of particles
- d. Flocules easy to resuspend

Q.14 Andreason pipette utilises principle of

- a. Sedimentation
- b. Centrifugation
- c. Compaction
- d. Filtration

Q.15 Rate of reaction can be increased by

- a. Promoter
- b. Enhancer
- c. Suppressor
- d. Catalyst