

CBSE Class 12 Chemistry Chapter 5 Surface Chemistry Worksheet – Set 5

- Q1. Which of the following metal sols cannot be prepared by Bredig's arc method?
- a.) Silver
- b.) Potassium
- c.) Gold
- d.) Platinum
- Q2. Which of the following is an emulsion?
- a.) Ruby
- b.) Sponge
- c.) Milk
- d.) Jellies
- Q3. A smoke precipitator works on the principle of:
- a.) Distribution law
- b.) Neutralization of charge on colloids
- c.) Le Chaterlier's principle
- d.) Addition of electrolytes
- Q4. Which of the following ats a negative catalyst?
- a.) Lead tetraethyl as an antiknock compound
- b.) Glycerol in the decomposition of H₂O₂.
- c.) Ethanol in the oxidation of chloroform
- d.) None of the above
- **Q5.** Soap solution is colloidal in nature and remove the dust particles by which of the following process?
- a.) Emulsification
- b.) Adsorption
- c.) Stripping
- d.) Distillation
- **Q6.** Write one similarity between physisorption and chemisorption.



- **Q7.** What is the difference between oil/water (O/W) type and water/oil (W/O) type emulsions? Give an example of each type.
- **Q8.** Explain the following:
- (a) Same substance can act both as colloids and crystalloids.
- (b) Artificial rain is caused by spraying salt over clouds.
- **Q9.** Write the dispersed phase and dispersion medium of the following colloidal systems:
- (i) Smoke
- (ii) Milk
- Q10. Give reasons for the following observations:
- (i) Leather gets hardened after tanning.
- (ii) Lyophilic sol is more stable than lyophobic sol.
- (iii) It is necessary to remove CO when ammonia is prepared by Haber's process.
- Q11. What happens when an emulsion is centrifuged?
- **Q12.** Define sorption.
- Q13. Write the characteristics of Chemisorption.
- **Q14.** Action of soap is due to emulsification and micelle formation. Comment.
- Q15. How do emulsifying agents stabilise the emulsion?
- **Q16.** What are the characteristics of the following colloids? Give one example of each.
- (i) Multimolecular colloids
- (ii) Lyophobic sols
- (iii) Emulsions
- Q17. Write a short note on Peptization.
- Q18. Answer the following-
- (a) How can we get the following colloidal solutions:
- (i) Sulphur in water
- (ii) Fe(OH)₃ in water
- (iii) Gold in water
- (b) List two applications of adsorption.
- Q19. What is a protective colloid?
- Q20. Define the following terms giving an example of each:



- (i) Associated colloids
- (ii) Lyophilic sol
- (iii) Adsorption

