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CLASS XII CHAPTER - SURFACE CHEMISTRY

ONE MARK QUESTIONS

- 1. What is the basic difference between adsorption and absorption?(2010)
- 2. Why are finely divided substances more effective as an adsorbent? (2011)
- 3. Why is the adsorption phenomenon always exothermic? (2012)
- 4. What is meant by shape selective catalysis?
- 5. Out of AlCl₃ and NaCl, which is more effective in causing coagulation of a negative sol and why? (2015)

TWO MARK QUESTIONS

- 1. What is the difference between a colloidal solution and emulsion? What is the role of emulsifier in forming emulsion? (2010)
- 2. What are the characteristics of a solid catalyst?
- 3. What is activation of an adsorbent? How can it be achieved?

THREE MARK QUESTIONS

- 1. Differentiate between giving examples.
 - a) Homogeneous and heterogeneous catalysis
 - b) Physical and chemical adsorption
 - c) Lyophobic and lyophilic colloids
- What is the difference between multimolecular and macromolecular colloids?
 Give one example of each type. How associated colloids are different from these two types of colloids. (2010)
- 3. Explain how the phenomenon of adsorption finds application in each of the following processes:
 - a) Production of vacuum
 - b) Heterogeneous catalysis
 - c) Froth floatation process (2011)

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- 4. Explain the following terms:
 - a) Tyndall effect
 - b) Electrophoresis
 - c) Dialysis (2011)
- 5. What happens when

(2007)

- a) Electric current is passed through a colloidal solution.
- b) Solution of NaCl is added to a colloidal solution of Fe (OH)₃.
- c) An emulsion is subjected to centrifugation.
- 6. Define adsorption with an example. Why is adsorption exothermic in nature? Write the types of adsorption based on the nature of forces between adsorbate and adsorbent. (2015)
