

Class-XII
CHEMISTRY (043)
Chapter- (Surface Chemistry)
ASSIGNMENT-8

(One mark)

1. Is adsorption exothermic or endothermic?
2. Out of physisorption or chemisorptions, which has higher enthalpy of adsorption?
3. What name is given to the process of removal of adsorbed substance from the surface on which it is adsorbed?
4. Which gas acts as a catalytic poison in Haber, s process?
5. Name the substance that increases the activity of a catalyst.
6. Which metal acts as a catalyst in Haber, s process for manufacture of ammonia?
7. Catalysts direct a reaction to yield a particular product. What is this ability of a catalyst known as?
8. Give an example of shape selective catalysts.
9. Which enzyme is responsible for conversion of glucose into ethanol?
10. A colloids contains a liquid dispersed in another liquid. Name the type of colloids.
11. Give an example of multimolecular colloids.
12. What is the sign of ΔH and ΔS for adsorption process?
13. Is chemisorptions reversible or irreversible?
14. Which form of carbon acts as an excellent adsorbent?
15. Give an example of emulsion.

(Two mark)

16. Write any two characteristics of chemisorptions.
17. Why does physisorption decrease with increase of temperature?
18. Why are powdered substances more effective adsorbent than their crystalline forms?
19. Why is the ester hydrolysis slow in the beginning and becomes faster after some time?
20. What is the role of desorption in the process of catalysis?
21. What modification can you suggest in the Hardy-Schulze law?
22. Why is it essential to wash the precipitate with water before estimating it quantitatively?
23. Distinguish between the meaning of the term adsorption and absorption. Give one example of Each.
24. Give reason why a finely divided substance is more effective as an adsorbent.
25. What are the factors, which influence the adsorption of a gas on solid?

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