

India's Number 1 Education App

CHEMISTRY

NCERT - NCERT CHEMISTRY(ENGLISH)

SURFACE CHEMISTRY



1. Write any two characteristics of

Chemisorption.





increase of temperature ?

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3. Why are powdered substances more effective adsorbent than their crystalline

forms ?



4. In Heber's process. Hydrogen is obtained by reacting methane with steam in presence of NiO as catalyst. The process is known as steam reforming. Why is it necessary to remove CO when ammonia is obtained by Haber's process?

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5. Why is ester hydrolysis slow in the beginning and becomes faster after some time?



7. What modification can you suggest in the

Hardy Schulze law?

8. Why is it essential to wash the precipitate with water before estimating it quantitatively?
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9. Distinguish between the meaning of the terms adsorption and absorption. Given one example of each.

10. Write differences between physisorption

and chemisorption.

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11. Give reason why a finely divided substance

is more effective as an adsorbents?

12. What are the factors which influence the

adsorption of a gas on a solide ?

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13. What is an adsorption isotherm? Describe

Freundlich adsorption isotherm.

14. What do you understand by activation of

adsorption : How is it achieved.



15. What role does adsorption play in

heterogeneous catalysis ?



16. Why is adsorption always exothermic ?



17. How are the colloidal solutions classified on

the the basis of physical states of the

dispersed phase and dispersion medium ?

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18. Disuss the effect of pressure and temperature on the adsorption of gases on solides.



19. What are lyophilic and lyophobic sols?Give one example of each type ? Why is hydrophobic sol easily coagulated ?

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20. What is the difference between multimolecular and macromolecular collids ? Give one example of each . How are associated





21. What are enzymes ? Write in brief the

mechanism of enzyme catalysis ?

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22. How are colloids classified on the basis of

(i) physical states of components

(ii) nature of dispersed phase and

(iii) Interaction between dispersed phase and

dispersion medium?

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- 23. Explain what is observed
- (i) when a beam of light is passed through a colloidal sol.
- (ii) and electrolyte, NaCI is added to hydrated ferric oxide sol.

(iii) electric curret is passed through a

colloidal sol.



24. What are emulsions ? What are their different types ? Give an example of each type ?



25. How do emulsifiers stabilise emulsion ?

Name two emulsifiers.

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26. Action of soap is due to emulsification and

micelle formation. Comment.

27. Give four examples of heterogeneous catalytic reactions.
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28. What do you mean by activity and

selectivity of catalysts ?





34. Explain the following terms with suitable examples :

a. alcosol,b. Aeorsol,c. Hydrosol



35. Comment on the statement that colloid is

not a substance but state of a substance

