



SHIKSHA CLASSES

Subject : Chemistry
Class : XI

Question Paper
11 : Adsorption and Colloids

Total Marks :20
Time : 1 Hour

SECTION A

Q.1 : Choose the correct option : 4

i) In Haber process of production of ammonia K_2O is used as

- a) catalyst b) inhibitor
c) promotor d) adsorbate

ii) Gum in water is an example of

- a) true solution b) suspension
c) lyophilic sol d) lyophobic sol

iii) Size (diameter) of colloidal particle is

- a) 10^{-6} to 10^{-9} m b) 10^{-9} to 10^{-12} m
c) 10^{-3} to 10^{-9} m d) 10^{-12} to 10^{-19} m

iv) What is the colloid in which dispersion medium and dispersed phase are in solid state called?

- a) Emulsion b) Gel
c) Aerosol d) Solid sol

Q.2 : Answer the following 2

- i) What is Catalyst?
ii) Define : Desorption.

SECTION B

: Answer the following : (ANY 2) 4

Q.3 : Distinguish between Adsorption and Absorption .

Q.4 : Explain Catalytic Activity.

Q.5 : How can be colloids prepared by chemical methods.

SECTION C

: Answer the following : (ANY 2) 6

Q.6 : Distinguish between Lyophobic sols and lyophilic sols.

Q.7 : Explain Freundlich adsorption isotherm.

Q.8 : Explain coagulation of colloidal solution. What are the different methods of coagulation.

SECTION D

: Answer the following : (ANY 1) 4

Q.9 : What are the factors affecting adsorption.

Q.10 : Give the classifications of catalysts.

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