



CHEMISTRY

CH: 5 SURFACE CHEMISTRY

Class: XII

I	<u>Answer the following</u>
1.	Why does a gas mixed with another gas not form a colloidal system?
2.	Why are adsorbate particles attracted and retained on the surface of adsorbent?
3.	Explain the terms sorption and desorption.
4.	“Chemisorption is highly specific.” Illustrate with an example.
5.	“Adsorbents in finely divided form are more effective.” Why?
6.	Name two compounds used as adsorbent for controlling humidity.
7.	Why is adsorption always exothermic?
8.	Out of NH_3 and CO_2 , which gas will be adsorbed more readily on the surface of activated charcoal and why?
9.	Mention one shape selective catalyst used to convert alcohol directly into gasoline.
10.	‘Generally high temperature is favourable for chemisorption.’ Why?
11.	Which group elements show maximum catalytic activity for hydrogenation reactions?
12.	Why gas masks are used by miners in coal mines while working?
13.	Write the chemical reaction involved in the preparation of sulphur sol.
14.	Name the enzyme which converts milk into curd.
15.	State Hardy - Schulz rule.
16.	State the principle of electrodialysis.
17.	Why do colloidal particles show Brownian movement?
18.	State the sign of entropy change involved when the molecules of a substances get adsorbed on a solid surface
19.	What happens when hydrated ferric oxide and arsenious sulphide sols are mixed in almost equal proportions?
20.	Smoke is passed through charged plates before allowing it to come out of chimneys in factories. Why?
21..	Gelatin is generally added to ice-cream. Why?