

Model Question Paper
Surface Chemistry - Part II

12th Standard

Chemistry

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 70

5 x 1 = 5

Part-A

- 1) Colloidal medicines are more effective because
(a) they are clean (b) they are easy to prepare (c) the germs move towards them (d) they are easily assimilated and adsorbed
- 2) Oil soluble dye is mixed with emulsion and emulsion remains colourless then, the emulsion is
(a) O/W (b) W/O (c) O/O (d) W/W
- 3) For selective hydrogenation of alkynes into alkene the catalyst used is
(a) Ni at 250°C (b) Pt at 25°C (c) Pd, partially inactivated by quinoline (d) Raney nickel
- 4) For chemisorption, which is wrong
(a) irreversible (b) it requires activation energy (c) it forms multimolecular layers on adsorbate (d) surface compounds are formed
- 5) An emulsion is a colloidal solution of
(a) two solids (b) two liquids (c) two gases (d) one solid and one liquid

Part-B

5 x 3 = 15

- 6) Why is a colloidal system of gas in gas does not exist?
- 7) Why colloids are purified?
- 8) What are emulsions? Give two examples?
- 9) What is Tyndall effect?
- 10) What is purification colloid?

Part-C

6 x 5 = 30

- 11) Write the applications of colloids.
- 12) Explain the chemical methods of preparing colloids.
- 13) How can colloidal solution be purified by dialysis?
- 14) Write notes on the types of catalysis.
- 15) Write notes on the types of colloids based on the physical states of dispersed phase and dispersion medium.
- 16) What is electrophoresis? Explain.

Part-D

2X10=20

- 17) a) Write notes on emulsions.
b) How are colloids prepared by using (i) mechanical dispersion method, (ii) electro dispersion method?
- 18) a) Write notes on a (i) Auto catalyst, (ii) Promoters.
b) Write briefly on intermediate compound formation theory of catalysis with an example
