

Model Question paper
Purification of Organic compounds 3

11th Standard

Chemistry

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:00:00 Hrs

Total Marks : 46

9 x 1 = 9

Part - A

- 1) Organic compounds are soluble in
(a) Non-polar Solvents (b) Polar Solvent (c) Water (d) HCl
- 2) Decolourisation of coloured compounds can be effected by using
(a) Animal charcoal (b) Carbon (c) Coke (d) Infra-red-rays
- 3) Compounds having boiling points widely apart 40 K and above can be purified by
(a) Crystallisation (b) Simple distillation (c) Fractional distillation (d) Sublimation
- 4) Nitrobenzene and benzene can be separated by the method of
(a) Steam distillation (b) Crystallisation (c) Simple distillation (d) Steam distillation
- 5) Purification of mixture of compounds can be done by steam distillation only if the impurities are
(a) Non-volatile (b) Volatile (c) Insoluble in Water (d) Both a & c
- 6) When the stationary phase is solid, then the compounds can be separated on the basis of
(a) Adsorption (b) Partition (c) Absorption (d) Distribution
- 7) Column Chromatography is based on the principle of
(a) Adsorption (b) Partition (c) Absorption (d) Distribution
- 8) In Ascending paper Chromatography, the solvent moves
(a) Upwards (b) Downwards (c) Horizontally (d) None
- 9) The existence of wide range of organic compounds is due to their property of
(a) Extensive catenation (b) Lower boiling points (c) Polymerisation (d) Isomerism

Part - B

3 x 2 = 6

- 10) What are the different stages followed during Crystallisation?
- 11) Define steam distillation.
- 12) What are different types of distillation?

Part - C

2 x 3 = 6

- 13) Give the advantages of distillation under reduced pressure.
- 14) What are the types of paper chromatography?

Part - D

5 x 5 = 25

- 15) Explain the method of purifying a solid organic compound
- 16) Write short notes on
a) Fractional crystallization b) Solvent extraction
- 17) Explain the purification of compounds by using thin layer chromatography.
- 18) What are the various principles used in chromatographic separation?
- 19) Write down the general characteristics of organic compounds.
