

UNIT- 11 – FUNDAMENTALS OF ORGANIC CHEMISTRY
I. Answer in brief (2/3 marks)

- Write a note on homologous series.
- What is meant by a functional group?

Identify the functional group in the following compounds.

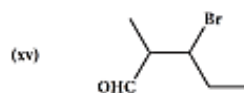
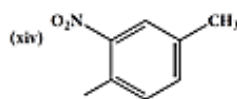
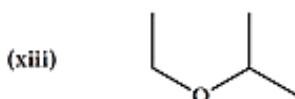
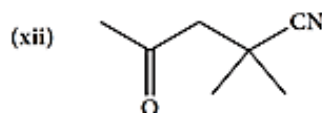
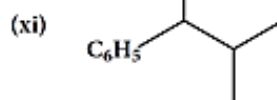
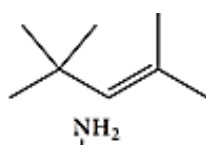
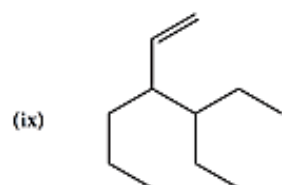
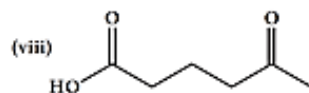
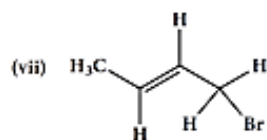
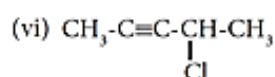
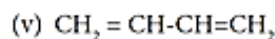
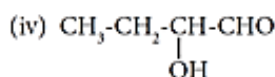
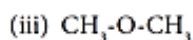
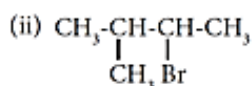
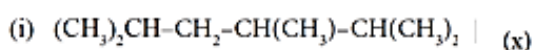
(a) acetaldehyde (b) oxalic acid (c) di methyl ether (d) methylamine

- Give the general formula for the following classes of organic compounds

(a) Aliphatic monohydric alcohol (b) Aliphatic ketones. (c) Aliphatic amines.

II. Answer in a paragraph (5 marks)

- Give the general characteristics of organic compounds.
- Describe the classification of organic compounds based on their structure.
- Give the IUPAC names of the following compounds.



- Describe the reactions involved in the detection of nitrogen in an organic compound by Lassaigne method.
- Give the principle involved in the estimation of halogen in an organic compound by carius method.
- Give a brief description of the principles of
 - Fractional distillation
 - Column Chromatography
- Explain paper chromatography
- Describe optical isomerism with suitable example.
- 0.24g of an organic compound gave 0.287 g of silver chloride in the carius method. Calculate the percentage of chlorine in the compound.