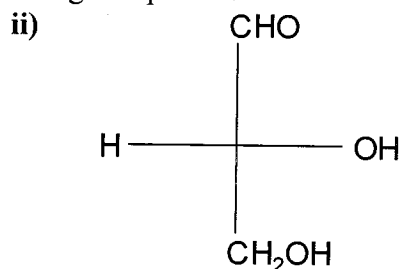
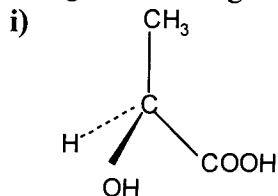
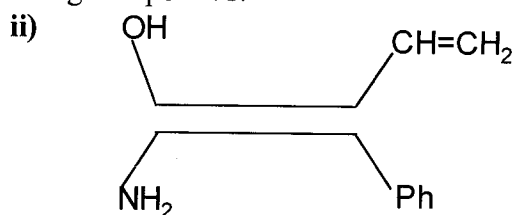
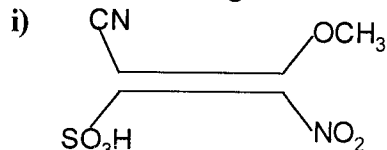




d) Assign R/S configuration to the following compounds:



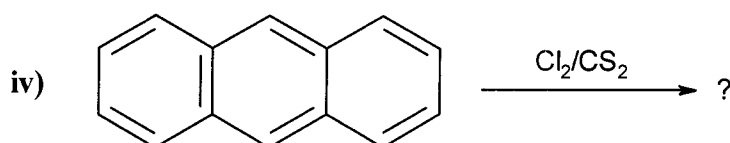
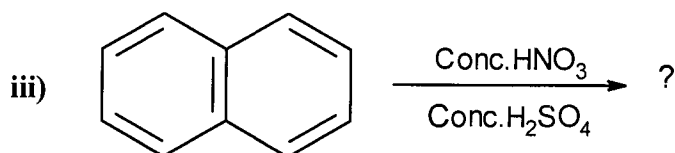
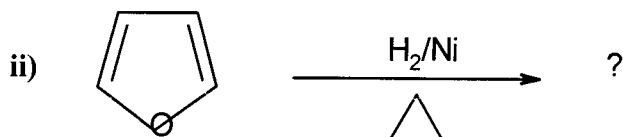
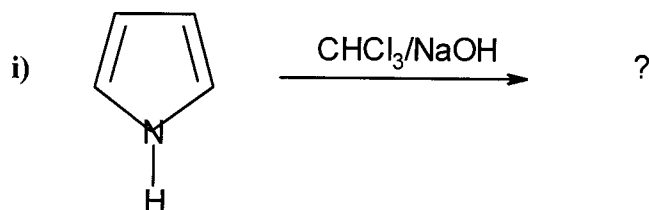
e) Assign E/Z configuration to the following compounds:



Q.4 A) Attempt any **ONE** of the following: (06)

a) What is conformational isomerism? Draw all possible conformations of ethane and explain their stability with energy profile diagram.

b) Predict the product/s



## SECTION - II

Q.4 B) Attempt any **ONE** of the following: (06)

- What is anomalous behavior? Discuss anomalous behavior of nitrogen.
- Write the names and electronic configuration of carbon family elements. Discuss the trends in atomic size, ionization potential, oxidation states and reactivity of these elements.

Q.5 Attempt any **TWO** of the following: (12)

- Define electronegativity and electron affinity. Comment upon electronegativity and electron affinity of halogen family elements.
- Give any one example and draw the structure of :
  - Halide of aluminium
  - interhalogen compound
  - silicate
- Write notes on the following:
  - Oxyacids of Phosphorous
  - Allotropes of carbon

\* \* \*