

Sessional I - April 2023
B.Tech. ECE

CHEMISTRY (BSC 102)

Time: 90 Minutes

All questions are compulsory.

Max. Marks:15

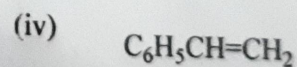
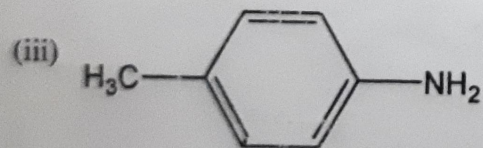
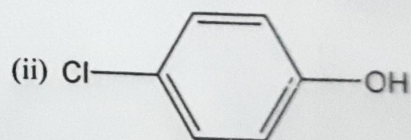
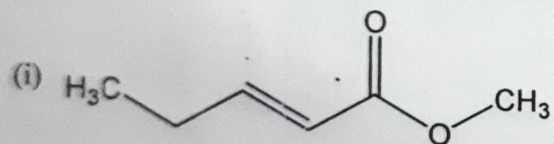
Q1. Calculate vibrational Degree of Freedom in CCl_4 and Ethyne.

[2]

Q2. What are the applications of NMR spectroscopy?

[4]

Q3. Explain the number of signals in spectrum of following molecules



Q4. Define the following terms

[1.5 x 4]

(i) Wave Number

(ii) Specific optical rotation

[1.5 x 2]