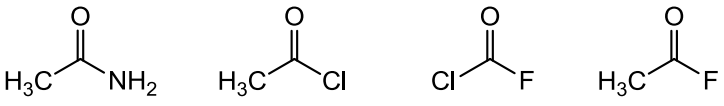
SOVARANI MEMORIAL COLLEGE
INTERNAL EXAMINATION - 2022
PAPER: CEMA-CC-4-8-TH (SEM – IV)
ORGANIC CHEMISTRY

Full Marks – 10. **Time – 30 min**

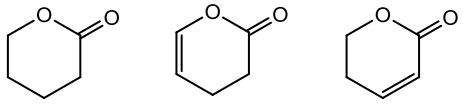
Answer any five **(2 x 5 = 10)**

1. Arrange the following carbonyl compounds in order of increasing carbonyl stretching frequency.



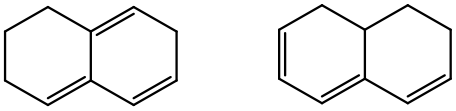
(I) **(II)** **(III)** **(IV)**

2. Arrange the following lactones in order of increasing carbonyl stretching frequency

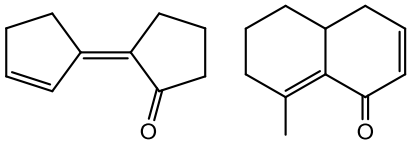


(I) **(II)** **(III)**

3. Calculate λ_{max} value for the following compounds



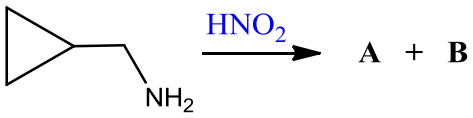
4. Calculate λ_{max} value for the following compounds



5. How many ^{1}HNMR signal would you expect from $CH_3CH_2CHClCH_3$?

6. Why super conducting magnet is used in NMR spectroscopy?

7. Identify the products A and B from the following reaction



8. Identify the product with suitable mechanism.