



Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: CHEMISTRY

Paper : C 10-T

Organic Chemistry - IV

Full Marks : 40

Time : 2 Hours

Candiates are required to give their answer in their own words as far as practicable. The figures in the margin indicate full marks.

Group - A

Answer any *four* questions from the following :

1.

- (a) Distinguish Methyl benzoate and Phenyl acetate by IR spectroscopy.
 - (b) Define synthetic equivalent with an example.
 - (c) How many kinds of non equivalent proton are there $C_2H_5CH = CH_2$, label them.
- 2. (a) Why do acetylenic proton resonate at upfield region with respect to ethylenic proton, though acetylenic hydrogen are more acidic than ethylenic hydrogen ? 3
 - (b) How can you convert ArNH₂ to ArNHMe exclusively without any Ar NMe₂ ?

2

5×4=20

2

1

2



(3)





(4)