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UG/5th Sem/CHEM(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

CHEMISTRY

Paper - C12-P

Organic Chemistry - V

Full Marks : 20

Time : 3 Hours

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

1. (i) Separate the mixture of two amino acids by
TLC technique.

Record :

(a) Prepare TLC plate. (5)

(b) Separation technique on TLC plate. (10)

Or,

[Turn Over]

(2)

- (ii) (a) Correlate the marked absorption peaks in the supplied IR-spectrum of a known organic compound to its characteristic structural feature. (1×5)
- (b) (i) Indicate how many different types of protons are present in the given organic compound and mark them by a, b, c, etc.
- (ii) Arrange them according to their chemical shift (δ - ppm).
- (iii) Locate each type of proton to signal of protons with appropriate chemical shift or range of chemical shift in the supplied 'H'-NMR spectrum of the compound.
- (iv) Explain the nature of splitting of signal(s) [if present].
- (v) Find out the number of protons in each signal. (5×2)
2. Viva-voce (3)
3. Laboratory Note Book (2)
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