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

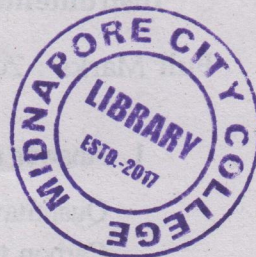
2019

B.Sc. (Hons)

5th Semester Examination

CHEMISTRY

Paper - DSE-2P



Analytical Methods in Chemistry

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. Carry out any one of the experiment given below —

(a) Separate a mixture of Sudan yellow and Sudan Red by TLC technique and identify them on the basis of their R_f values.

(b) Determine the pK_{in} value of Bromocresol Green indicator using colorimeter. 1×15

2. Laboratory Note Book 2

3. Viva-voce 3

(2)

Instrumental Methods of Chemical Analysis

Full Marks : 20

Time : 2 Hours

1. Answer any *one* question : 15

Quantitatively analyse the mixture of Chloroform and Carbon tetra chloride by using Gas Chromatography technique.

Or,

Potentiometric Titration of a Chlorine-Iodine Mixture.

Or,

Analyse the IR Absorption Spectra of aldehyde or Ketone.

Or,

Determine the isoelectric pH of a protein.

Or,

Derive the titration curve of an amino acid.

2. Laboratory Note Book 2

3. Viva - voce 3
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