

2020

CHEMISTRY — HONOURS — PRACTICAL

Paper : CC-7P

(Organic Chemistry)

Full Marks : 30

The figures in the margin indicate full marks.

1. You are provided with an unknown concentration of glycine ($x \text{ gL}^{-1}$). Calculate the concentration of supplied glycine by Sorensen formol titration method in gL^{-1} .

Given data :

- (i) Strength of standard oxalic acid solution = 0.0501 (N)
 - (ii) Volume of NaOH solution required for standardisation against 0.0501 (N) oxalic acid solution = 24.2 mL
 - (iii) Volume of standardised NaOH solution required for estimation of glycine = 23.5 mL.
- (a) Write down the principle of estimation of glycine by Sorensen formol titration method and mention the working formula. 10
- (b) Show the given data in tabular form for standardisation of NaOH solution by standard oxalic acid solution. 5
- (c) Show the given data in tabular form for estimation of glycine solution against standard NaOH solution. 5
- (d) Calculation of unknown concentration of glycine in gL^{-1} . 10
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