2021
CHEMISTRY HONOURS PRACTICAL
PAPER: CEMA-CC-3-7-P
ORGANIC CHEMISTRY-3

Full Marks - 30 **Time - 2h**

1. Define primary standard solution and secondary standard solution with suitable example. How will you prepare 250 ml standard (N/20) oxalic acid solution? **[2+2+2]**

2. What is Fehling's solution-A and Fehling's solution-B? What will be the chemical reaction, if you mixed equal volume of Fehling's solution-A and Fehling's solution-B? **[1+1+2]**

3. For the estimation of glycine by formol method, answer the following questions. . **[3+1+3]**

A) Write down the basic principle of estimation of glycine indicating the equations involved

B) Mention the indicator used in this estimation.

C) Calculate the total amount of glycine present in the supplied solution in $g.lit^{-1}$ by the help of following data.

SL No	Volume of glycine solution supplied (ml)	Volume of NaOH required (ml)	Strength of NaOH (N)
1	25	8	(N/20)

4. Write down the principle involving the estimation of glucose by Fehling's solution indicating the equation involved. **[3]**

5. How will you confirm the presence of benzaldehyde and aniline? Mention at least two tests for each with chemical reaction. **[5]**

6. How will you confirm the presence of salicylic acid and resorcinol? Mention at least two tests for each with chemical reaction. **[5]**