U.G. 4th Semester Examination - 2020 **CHEMISTRY**

[HONOURS]

Course Code: CHEM(H)CC-P-10 (Organic-IV) [PRACTICAL]

Full Marks: 20 Time: 2 Hours The figures in the right-hand margin indicate marks.

Answer any **four** questions: $5 \times 4 = 20$ Why glycine can not be estimated by direct titration with alkali? Discuss the principle of estimation of glycine with proper equation. Write down the name of one reducing and one 2. a) non-reducing sugar. Discuss the principle of estimation of glucose with proper equation. 2 What is invert sugar? Write down the structure of vitamin-C. 3. a)

b)	'Reaction between ascorbic acid and 2, dichlorophenol-indophenol blue is a red process' - Comment on this statement with proper explanation.	ox
c)	What is the indicator used in the estimation vitamin C?	of 1
a)	In the estimation of aniline the indicator star should be added near the end point of titration Give reason.	
b)	What is the brominating agent generally used volumetric analysis? Can you use $\mathrm{Br_2}/\mathrm{H_2O}$ the above said purpose? Give answer with reason 2-	for on.
a)	Define saponification value of oil or fat.	2
b)	What is the difference between oil and fat ?	2

5. 2

What is Fehling's B solution?

Discuss the principle of estimation of urea by 6. a) hypobromite method. 3

How hypobromite can be prepared in situ? 2

3

2

4.