

U.G. 4th Semester Examination - 2021

CHEMISTRY

[HONOURS]

Course Code : CHEM-H-CC-P-10

(Organic)

[PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

Answer any **four** questions: 5×4=20

1. a) How can you prepare Fehling solution in a laboratory? (Write only the name and formula of chemical used) 3
b) Write down a chemical reaction which proves that glucose is a reducing sugar. 2
2. a) Why formaldehyde is used in the Sorensen formol method? 2
b) Briefly discuss the principle of estimation of glycine by Sorensen formol method of estimation. 3
3. a) Write down the structure of ascorbic acid and sucrose. 2

- b) Discuss the principle of estimation of vitamin-C. 3
4. a) State the principle of the estimation of aniline by brominating method. 3
b) Why bromine solution cannot be used directly for the above said procedure? 2
5. a) State the principle of estimation of urea by hypobromite method. 3
b) Write down the name of apparatus used for the above method. 2
6. a) Define the term 'saponification' value of ester / fat. 3
b) "The saponification value of vegetable oil is very high." Explain. 2

[Turn Over]