

TB154115C

Reg.No:

Name:

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017
SEMESTER IV - COMPLEMENTARY COURSE (CHEMISTRY)
CH4CO4TB – ADVANCED ORGANIC CHEMISTRY
(Common for Botany, Zoology and H. Sc.)

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each question carries 1 mark

1. Vitamin A is also called
2. is an example for polysaccharide
3. Rancidity of oils and fats can be prevented by adding.....
4. What is MSG?
5. Xanthoproteic test is answered by

(5×1=5)

PART B

II. Answer any five questions. Each question carries 2 marks

6. Draw the structure of ATP.
7. Explain essential and non essential amino acids?
8. What is zwitter ion? Give one example.
9. What is gun cotton?
10. What is meant by saponification value? Explain.
11. Compare simple and complex lipids.
12. Explain leavening agents?
13. What is a prosthetic group?

(5×2=10)

PART C

III. Answer any five questions. Each question carries 5 marks

14. Explain the mechanism of enzyme action.
15. Describe the different methods available for testing proteins?
16. Write a note on mutarotation.
17. Explain how iodine value is determined.
18. What are spurious colours? How they are harmful?
19. Write a note on enzyme specificity.
20. Write a note on the reducing properties of glucose.
21. What are soaps? Explain the different types of soaps.

(5×5=25)

PART D

IV. Answer any two questions. Each question carries 10 marks

22. Discuss the structure and biological functions of DNA and RNA.
23. Explain briefly a) emulsifying agents b) artificial sweeteners
24. (a) Draw the Haworth projection of glucose and fructose.
(b) Write note on the preparation and properties of sucrose.
25. Explain the primary, secondary and tertiary structures of proteins.

(2×10=20)