

TB144110C

Reg. No:

Name:

B. Sc. DEGREEE (C.B.C.S.S) EXAMINATION, MARCH 2017
(Supplementary – 2014 Admission)
SEMESTER IV – CHEMISTRY (COMPLEMENTARY COURSE)
CHE4ABC - ADVANCED BIO – ORGANIC CHEMISTRY
(For Botany, Zoology and Home Science)

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each question carries 1 mark.

1. Dipolar ion form of amino acid is known as.....
2. The enzyme Ferredoxine contains metal ion as co-factor.
3. is an example for oligosaccharide.
4. Vitamin A is also called
5. Unpleasant odours and flavours in oils and fats are called.....

(5×1=5)

PART B

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

6. Define isoelectric point.
7. Describe any two methods available for testing proteins.
8. What are activators?
9. Give the reaction of glucose with (i) a mixture of HI and red P and (ii) bromine water.
10. What are hormones? Give any two examples.
11. Compare simple and complex lipids with examples.
12. Explain the term rancidification.
13. Give isoprene rule.

(5×2=10)

PART C

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

14. Describe Strecker and Gabriel synthesis for preparation of amino acids.
15. Write a note on enzyme specificity.
16. What do you mean by denaturation? Explain.
18. Write a note on mutarotation.
19. Give the industrial applications of cellulose.
20. What are steroid hormones? Give examples.
21. Explain the properties of nicotine.
22. Comment on vulcanization of rubber.

(5×5=25)

PART D

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

23. (a) Discuss the structure of aminoacids.
(b) Explain paper chromatography method used for the separation of amino acids.
24. (a) Explain the functions of nucleic acid.
(b) Mention the functions of vitamin C.
25. (a) Draw the Hawroth projection of glucose and fructose.
(b) Write note on the preparation and properties of sucrose.
26. (a) Explain the various procedures for isolation of oils and fats.
(b) Discuss the isolation, properties and structure of conine.

(2×10=20)