TB174115C **Reg. No: .....**

Name: .....

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2019
(2017 Admissions Regular, 2016 Admissions Improvement/Supplementary & 2015 Admissions Supplementary)
SEMESTER IV – COMPLEMENTARY COURSE (CHEMISTRY)
CH4C04TB - ADVANCED ORGANIC CHEMISTRY
(Common for Botany, Zoology, Home science)

Time: Three Hours **Maximum Marks: 60**

PART A

I Answer all questions. Each question carries 1 mark

1. What is meant by genetic code?
2. Glycine when heated with barium hydroxide gives…….
3. Give example of a polysaccharide
4. What is soap? Give an example.
5. Name the chemical used for giving banana flavour in food.

(5x1=5)

PART B

II Answer any five questions. Each question carries 2 marks

6. What are nucleoside and nucleotide?
7. Give the xanthoproteic test for proteins.
8. Explain zwitter ions?
9. What are globular proteins? Give example.
10. Explain Kiliani reaction with example.
11. What are saturated and unsaturated fatty acids? Give two examples each.
12. What are complex lipids? Give examples.
13. Write a short note on spuriouscolours.Give one example.

(5x2=10)

PART C

III Answer any five questions. Each question carries 5 marks

14. Discuss mechanism of enzyme action.
15. Explain the replication of DNA.
16. Describe briefly Gabrielphthalimide synthesis and Strecker synthesis.
17. Give the preparation and oxidation-reduction reactions of fructose
18. Explain mutarotation.
19. Describe cleansing action of soap.

20. Write an explanatory note on synthetic detergents.
21. Explain briefly taste enhancers used in food industry

(5x5=25)

PART D

IV Answer any two questions. Each question carries 10 marks

22. Outline the structure and properties of Vitamin B1, B2, B3, B5& B6.
23. Explain the primary, secondary, tertiary and quaternary structure of proteins.
24. Give an account of the industrial uses of cellulose.
25. What are artificial sweetners?Give a detailed account of the following artificial sweetners a)Saccharin b)Aspartame c)Cyclamate

(2x10=20)