



K19U 0561

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – Reg./Supp./Imp.)
Examination, April 2019
(2014 Admission Onwards)
COMPLEMENTARY COURSE IN CHEMISTRY
4C04 CHE (BS) : Chemistry (For Biological Sciences)**

Time : 3 Hours

Max. Marks : 32

SECTION – A

Answer **all** questions. **Each** question carries **1** mark :

1. What are epimers ?
2. What is meant by codon ?
3. What is cis platin ?
4. Give the chemical names of vitamine B₂ and B₁₂.
5. Give the structure of two five membered heterocyclic compounds. **(1×5=5)**

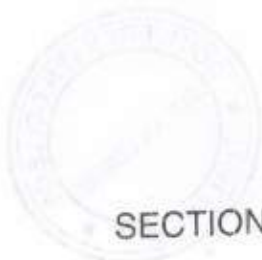
SECTION – B

Answer **any four** questions. **Each** question carries **2** marks :

6. What is meant by mutarotation ?
7. Explain the role Ca in biological 'systems.
8. How can you separate aminoacids by chromatographic method ?
9. Compare the reactivity of thiophene and furan ?
10. Give the structure of adrenaline and thyroxine.
11. What are the functions of nucleic acids ? **(2×4=8)**

P.T.O.

K19U 0561



SECTION – C

Answer **any three** questions. **Each** question carries **3** marks :

12. Discuss the structure and uses of cellulose.
13. Explain the substitution reactions of pyrrole.
14. Give the classification of aminoacids with examples.
15. Explain Na- K pump.
16. Give any three tests for carbohydrates.

(3×3=9)

SECTION – D

Answer **any two** questions. **Each** question carries **5** marks :

17. Explain the role of Hb and Mb in the transport and storage of O₂ and CO₂.
18. a) What are the characters of enzyme catalysis ? 2
b) Write a note on enzyme deficiency disease. 3
19. Discuss the preparation, structure and reactions of quinoline.
20. How are proteins classified ? Explain the structure of proteins. (5×2=10)