



K21U 0865

Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS – Sup./Imp.) Examination, April 2021
(2014-'18 Admissions)

COMPLEMENTARY COURSE IN CHEMISTRY
4C04CHE(BS) : Chemistry (For Biological Sciences)

Time : 3 Hours

Max. Marks : 32

SECTION – A

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

(1×5=5)

1. What are anomers ?
2. What is meant by codon ?
3. What are epimers ?
4. Give two examples for hormones.
5. Give the structure of Vitamin A.

SECTION – B

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

(2×4=8)

6. What is meant by Sorenson formalin titration ?
7. How are Vitamins classified ?
8. How can you convert glucose into fructose ?
9. Explain the importance of Ca in biological systems.
10. What happens when isoquinoline is oxidized with alkaline KMnO_4 ?
11. Give a test for DNA.

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SECTION – C

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

(3×3=9)

12. Explain the following :
 - a) Mutarotation
 - b) Epimer.
13. Explain the effect of hydrogen bonding in biological systems.
14. Give structures of adrenalin, thyroxene, cortisone.
15. Explain the separation of aminoacids.
16. Explain the role of Hb in oxygen transport.

SECTION – D

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

(2×5=10)

17. Write notes on :
 - a) Michaelis Menton theory
 - b) Enzyme deficiency disease.
 18. a) Explain the sodium potassium pump. 3
b) Explain the role of metals in medicine. 2
 19. Discuss the preparation and reactions of pyridine.
 20. Discuss the structure of proteins.
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