



K22U 3639

Reg. No. :

Name :

**Third Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)**

GENERAL AWARENESS COURSE IN MICROBIOLOGY

3A11MCB : Biochemistry for Microbiology

Time : 3 Hours

Max. Marks : 40

PART – A

Short answer questions. Answer **all** questions.

(6×1=6)

1. Define pH.
2. What is a zwitter ion ?
3. What are immunoglobulins ?
4. Write down the structure of sucrose.
5. What are apoenzymes ?
6. Draw the structure of Proline.

PART – B

Short essay questions. Answer **any 6** questions.

(6×2=12)

7. Give the structure of lecithin.
8. Short notes on features of peptide bond.
9. Explain the properties of water.
10. Differentiate between acids and bases.
11. Explain ring formation of glucose.
12. Why glucose and fructose give same osazone ?
13. Draw the structures of basic amino acids.
14. What is meant by D and L form of monosaccharide ?

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PART – C

Essay questions. Answer **any 4** questions.

(4×3=12)

15. Enumerate the difference between DNA and RNA.
16. Briefly explain the different types of bonding in the biomolecules.
17. Explain the important functions of proteins.
18. Explain Michaelis-Menton equation.
19. Describe the different mechanism of enzyme action.
20. Write a note on structure and functions of phospholipids.

PART – D

Long essay questions. Answer **any 2** questions.

(2×5=10)

21. Discuss the different types of protein structure.
 22. Describe the structure and functions of polysaccharides.
 23. Give an account on the classification of enzymes.
 24. Write an essay on double helical structure of DNA.
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