Reg. No. : ....

Name : ....

III Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/Improvement) Examination, November 2023
(2019 to 2022 Admissions)
GENERAL AWARENESS COURSE IN MICROBIOLOGY
3A11MCB : Biochemistry For Microbiology

Time : 3 Hours

Max. Marks : 40

PART – A

(6×1=6)

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

1. Define peptidoglycan.

2. What is isoelectric point ?

3. What are fibrous protein ?

4. Draw the structure of fructose.

5. What are nucleosides ?

6. Define buffer.

PART – B

(6×2=12)

Short Essay questions. Answer **any 6** questions.

7. Differentiate saturated and unsaturated fatty acids.

8. Differentiate essential and non-essential amino acids.

9. Define pH.

10. Explain the glycosidic bond.

11. Explain the properties of monosaccharides.

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12. Short note on non protein aminoacids.

13. Short notes on properties of water.

14. Draw the structure of AMP.

PART – C

Essay questions. Answer **any 4** questions.   (4×3=12)

15. Derive Michaelis-Menten equation.

16. Briefly explain the different types and functions of polysaccharides.

17. Explain the folding of polypeptide chains.

18. Describe the different mechanism of enzyme action.

19. Write a note on structure and functions of sphingolipids.

20. Short note on redox reactions in living systems.

PART – D

Long Essay questions. Answer **any 2** questions.   (2×5=10)

21. Discuss the Watson Crick model of DNA.

22. Explain the different types of enzyme inhibition with suitable examples.

23. Discuss the structural organisation of proteins.

24. Describe the different types of bonding in the biomolecules.

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