



K20U 1295

Reg. No. :

Name :

III Semester B.Sc. Degree (CBCSS – Sup./Imp.) Examination, November 2020
(2014 – '18 Admns.)

GENERAL COURSE IN MICROBIOLOGY
3A11 MCB : Biochemistry for Microbiology

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** the **four** questions :

1. Acidic amino acids are _____ and _____
2. The pH at which the net charge of protein is zero is known as _____
3. Lactose is formed by the condensation of _____ and _____
4. In animal cells, fatty acid oxidation takes place in _____ (4×1=4)

SECTION – B

Answer very briefly on **any seven** questions out of ten :

5. Cholesterol.
6. Chirality of amino acids.
7. NAG and NAM.
8. Redox potential of compounds.
9. Cytochrome P450.
10. Henderson – Hasselbalch equation.
11. Phosphodiester bonds.
12. Prosthetic group.
13. Keto sugars with example.
14. K_M and its significance.

(7×2=14)



SECTION – C

Answer **any four** questions out of six briefly :

15. Structure of Immunoglobulin G.
16. Effect of drugs on vital organs.
17. β -oxidation of fatty acids.
18. Non covalent interactions in stabilizing protein structure.
19. Urea cycle.
20. Properties of enzymes.

(4×3=12)

SECTION – D

Answer **any two** questions out of four :

21. Write a detailed account on the classification of amino acids.
 22. Explain the structural and reserve polysaccharides in organisms.
 23. Embden-Myerhof-Parnas Pathway and its significance.
 24. Write an account on the structure and types of nucleotides in the cells. (2×5=10)
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