



K16U 2117

Reg. No. :

Name :

III Semester B.Sc. Degree (CBCSS – Reg./Supple./Imp.)
Examination, November 2016
(2014 Admn. Onwards)
GENERAL COURSE IN MICROBIOLOGY
3A11 MCB : Biochemistry for Microbiology

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** the questions :

1. The rate limiting enzyme in Glycolysis is _____
2. The predominant lipid of chylomicrons is _____
3. If two monosaccharides differ in configuration around a single carbon atom, they are known as _____
4. The bond forming backbone of protein structure is _____ (4×1=4)

SECTION – B

Write notes on **any seven** questions out of ten :

5. Non-protein amino acids.
6. Biological buffers.
7. Lecithin.
8. Essential fatty acids.
9. De-addiction.
10. Composition of bacterial cell wall.

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11. Isoelectric pH.
12. Decarboxylation of amino acids.
13. Organisation of prokaryotic ribosomes.
14. Measurement of pH.

(7×2=14)

SECTION – C

Briefly explain **any four** questions out of six :

15. Urea cycle.
16. Denaturation of DNA.
17. Difference between drug dependence and addiction.
18. Michaelis-Menten equation.
19. Reducing sugars.
20. Structure of immunoglobulin.

(4×3=12)

SECTION – D

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

21. Write the steps of beta oxidation.
22. Discuss the different levels of structural organisation of proteins.
23. Explain the double helical structure of DNA.
24. Classify carbohydrates giving examples for each class.

(2×5=10)