

D 13239

(Pages : 2)

Name..

Reg. No

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Microbiology

MB 1C 01—GENERAL BIOCHEMISTRY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer all **fourteen** questions in 2 **or** 3 sentences.*

Each question carries 1 weightage.

1. Scurvy.
2. N and O glycosidic linkages.
3. Steroids.
4. Invert sugar.
5. Gas Chromatography.
6. Beer-Lambert's law.
7. Isoelectric focusing.
8. Thromboxanes.
9. Phosphodiester bond.
10. Non-protein amino acids.
11. Anomers.
12. PUFA.
13. Vasopressin.
14. Colloids.

(14 x 1 = 14 weightage)

Section B

*Write notes on any **seven** of the following.*

Each question carries 2 weightage.

15. Structure of t-RNA.
16. Watson-Crick model of DNA structure.
17. Mass spectroscopy.

Turn over

18. Sugar Derivatives.
19. Cell-membrane structure.
20. Applications of radioisotopes in research.
21. Phospholipids.
22. Fat-soluble vitamins.
23. Mechanism of action of peptide hormones.
24. Lyophilisation techniques.

(7 x 2 = 14 weightage)

Section C

Write an essay on notes on any two of the following.

Each question carries 4 weightage.

25. Structural levels of organization in proteins.
26. Principle and application of various types of chromatography.
27. Polysaccharides.
28. Theory and applications of NMR.

(2 x 4 = 8 weightage)