

D 2016

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
DECEMBER 2009**

Microbiology

MBI 1T – GENERAL BIOCHEMISTRY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Write short notes on **all** questions.*

Each question carries 2 marks.

- | | |
|-----------------------------|----------------------------|
| 1. Anomers. | 2. Sialic Acid. |
| 3. Transamination Reaction. | 4. Sphingomyelin. |
| 5. Membrane proteins. | 6. 2DNA. |
| 7. Thyroxin. | 8. Cortico steroids. |
| 9. Cholesterol. | 10. Beriberi |
| 11. Tocopherols. | 12. Electrophoresis. |
| 13. Coloeymetry. | 14. pH. |
| 15. Leuco triens. | 16. Essential Fatty acids. |
| 17. +RNA. | 18. Circular DNA. |
| 19. n-Bend. | 20. CD. |

(20 x 2 = 40 marks)

Section B

*Write short notes on any **five** of the following.*

Each question carries 8 marks.

21. Structural Polysaccharides.
22. Lipo proteins.
23. Protein conformation.
24. Osmosis.
25. Neuro transmitters.
26. Sex hormones.
27. NMR.

F-

(5 x 8 = 40 marks)

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Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2013

(CUCSS)

Microbiology

MB 1C 01—GENERAL BIOCHEMISTRY

(2010 admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Write short answers to the following. Answer *all* questions. Each question carries 1 weightage :

- | | |
|--------------------------|------------------------------|
| 1 Glycosidic linkage. | 2 Motifs. |
| 3 PUFA. | 4 Ribozyme. |
| 5 HPLC. | 6 Electron spray ionization. |
| 7 Geiger-Muller counter. | 8 Dialysis. |
| 9 Z form of DNA. | 10 Vitamin K. |
| 11 Leukotriens. | 12 Phosphodiester bond. |
| 13 Chargaff's rule. | 14 Cyclic amino acid. |

(14 x 1 = 14 weightage)

II Write short paragraph answer to the following. Answer any *seven* questions. Each question carries 2 weightage :

- 15 Classification of amino acid.
- 16 What are glycoproteins and explain their biological functions ?
- 17 Ramachandran's plot and protein conformation.
- 18 Structure and function of cell membrane.
- 19 Different forms of RNA and their functions.
- 20 Role of hormones in gene regulation.
- 21 Autoradiography and its applications.
- 22 Effect of radiations on biological system.
- 23 Structure of pyrimidine bases.
- 24 Structure and function of any *two* heteropolysaccharides.

(7 x 2 = 14 weightage)

III. Explain the following. Answer any *two* questions. Each question carries 4 weightage :

- 25 Watson and Crick model of DNA structure.
- 26 Structural organization of proteins with suitable example.
- 27 Different types of chromatographic techniques.

(2 x 4 = 8 weightage)