

D 72944

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Microbiology

MB 1C 01—GENERAL BIOCHEMISTRY

Time : Three Hours

Maximum : 36 Weightage

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

- | | |
|---------------------|----------------------|
| 1 Disulphide bond. | 2 Histones. |
| 3 Colloids. | 4 Beer's law. |
| 5 Epinephrine. | 6 Vitamin C. |
| 7 5-Bromo uracil. | 8 Centripetal force. |
| 9 TLC. | 10 Glucosamine. |
| 11 Biomolecule. | 12 Prostacylin. |
| 13 α -helix. | 14 Amide. |

(14 x 1 = 14 weightage)

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

- 15 Structure and functions of amino glycosides.
- 16 Structure and functions of any two Disaccharide.
- 17 Distinguish spherigolipids and glycolipids.
- 18 Different types of hormones and their biological functions.
- 19 Principle and applicatin of Biphasic separation.
- 20 What is tracer technique ? Explain the application of radioactive isotopes in biological research.
- 21 What are non-protein amino acids ?
- 22 Which are essential amino acids, and explain their biological significance ?
- 23 Explain the role of lipids in cell membrane.
- 24 Classify vitamins based on their chemical nature.

(7 x 2 = 14 weightage)

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

- 25 Write an essay on spectroscopy.
- 26 Explain the structure and functions of any two biomolecules.
- 27 Explain structure and functions of diffeernt types of RNA's.

(2 x 4 = 8 weightage)