

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
FEBRUARY 2013****(CUCSS)**

Microbiology

MB 1C 02 – MICROBIAL METABOLISM

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A*Answer all **fourteen** questions in 2 **or** 3 sentences.**Each question carries 1 weightage.*

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|-------------------------|-----------------------------------|
| 1. Reductant. | 2. Poly hydroxyl butyrate. |
| 3. Endergonic reaction. | 4. Decarboxylation. |
| 5. Ricin. | 6. Chemoheterotroph. |
| 7. Metallo-enzyme. | 8. Xenobiotic. |
| 9. Activation energy. | 10. Sodium alginate. |
| 11. Cyclic AMP. | 12. Second law of thermodynamics. |
| 13. Sulphur granules. | 14. Electron carrier. |

(14 x 1 = 14 weightage)

Section B*Write notes on any **seven** of the following.**Each question carries 2 weightage.*

15. Bioluminescence.
16. Electron transport chain.
17. Enzyme immobilisation.
18. Mechanism of ATP formation.
19. Gluconeogenesis.

Turn over

20. Peptidoglycan structure.
21. Beta oxidation.
22. Organochlorine pesticides.
23. Feedback control.

(7 x 2 = 14 weightage)

Section C

Write an essay on any two of the following.

Each question carries 4 weightage.

24. Degradation of aminoacids.
25. HMP shunt and its significance.
26. Mechanisms of enzyme regulation.

(2 x 4 = 8 weightage)