

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2014

(CUCSS)

Microbiology

MB IC 02—MICROBIAL METABOLISM

Time : Three Hours

Maximum : 36 Weightage

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

1. High energy molecule.
2. Siderophore.
3. Chemiosmotic hypothesis.
4. Michaelis constant.
5. Hydrolases.
6. Photo organotroph.
7. Apo-enzyme.
8. NADP.
9. Cometabolism.
10. Ochratoxins.
11. PUFA.
12. Aminoacids involved in peptidoglycan interbridge.
13. Volutin granules.
14. Redox reaction.

(14 x 1 = 14 weightage)

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

15. ATP.
16. Electron transport chain.
17. Methanogenic bacteria and mechanism of methanogenesis.
18. Glycolysis.

Turn over

19. Intracellular reserve polymers.
20. TLC.
21. Biochemistry of rancidity.
22. Different group of antibiotics.
23. Entner Duodoroff pathway.

(7 x 2 = 14 weightage)

Section C

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

Each question carries 4 weightage.

24. Enzyme purification techniques.
25. Mechanism of toxigenicity and toxic effects of fungal toxins.
26. Mode of action of different antibiotics.

(2 x 4 = 8 weightage)