

D 72945

(Pages : 2)

Name

Reg. No.

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Microbiology

MB 1C 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. Cytochromes.
2. Trans-methylation.
3. Aflatoxin.
4. Isozyme.
5. Fermentation.
6. Lyases.
7. Purines.
8. GTP.
9. DDT.
10. Oxidative phosphorylation.
11. Principle behind affinity chromatography.
12. Competitive inhibition.
13. Mode of action of cephalosporins.
14. Co-factors.

(14 x 1 = 14 weightage)

Section B

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

15. cAMP structure.
16. ATP production during Krebs cycle.
17. Various types of fermentation reactions.
18. Components of electron transport chain.

Turn over

19. Intracellular reserve polymers.
20. Purine biosynthesis.
21. Enzyme immobilisation techniques.
22. Mycotoxins.
23. Omega oxidation.

(7 x 2 = 14 weightage)

Section C

*Write an essay on any **two** of the following.
Each question carries 4 weightage*

24. Effect of environmental parameters on enzyme activity.
25. Synthesis of essential aminoacids.
26. Classification of enzymes.

(2 x 4 = 8 weightage)