

TM154030A

Reg. No:.....

Name:.....

M. Sc. DEGREE (C.S.S.) EXAMINATION, MARCH 2017
SEMESTER IV - BOTANY
BO4EA1TM - FOOD AGRICULTURAL AND ENVIRONMENTAL
MICROBIOLOGY

Time: Three Hours

Maximum Marks : 75

PART A

I. Answer any five questions. Each question carries 3 marks

1. Explain Catalase test.
2. Define Bioaugmentation
3. Explain Secondary waste water treatment.
4. Describe role of Entomopathogenic fungi as biopesticide.
5. What is Viral Intoxication?
6. Write notes on Food preservation using Osmotic pressure.
7. Comment on Ecto-and Endo mycorrhiza.

(5x3 =15)

PART B

II. Answer any six questions. Each question carries 5 marks

8. Write notes on fermented milk products with examples and microbes involved.
9. Differentiate between phytoextraction and phyto transformation.
10. Write notes on Bacterial insecticides?
11. Explain Shigellosis and Botulism.
12. What you mean by Good manufacturing practises
13. Explain Bacterial growth curve.
14. Explain the role of soil as habitat for microbes
15. Comment on Phosphate solubilizers.
16. What is (a) Metagenomics (b) Microbial leaching

(6x5=30)

PART C

III. Answer any two questions. Each question carries 15 marks

17. Discuss the role of microbes in the management of organic as well as inorganic wastes
18. Explain the methods involved in detection of coliform bacteria.
19. Write notes on microbial flora in food and food spoilage
20. Explain the use of Microbes as biofertilizers.

(2x15=30)