

**C 44089**

**(Pages : 2)**

**Name.....**

**Reg. No.....**

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION  
AUGUST 2013**

(CUCSS)

Microbiology

MB 2C 07 – FOOD AND AGRICULTURAL MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Answer **all** questions in two **or** three sentences.  
Each question carries a weightage of 1.*

- |                                |                           |
|--------------------------------|---------------------------|
| 1. Chilling.                   | 2. LAB.                   |
| 3. Listeriosis.                | 4. Canning.               |
| 5. Food hygiene.               | 6. Mercaptans.            |
| 7. <i>Bacillus popilliae</i> . | 8. Nisin.                 |
| 9. NPV.                        | 10. <i>Azospirillum</i> . |
| 11. Nif gene.                  | 12. SCP.                  |
| 13. Microflora of rumen.       | 14. Pickle.               |

(14 x 1 = 14 weightage)

**Section B**

*Write short notes on any **seven**.  
Each question carries a weightage of 2.*

15. Symptoms of botulism.
16. Plant defence mechanisms.
17. Bioassay of any microbial pesticide.
18. Types of mycorrhizae.
19. HACCP.
20. Biogas production from agro wastes.
21. Staphylococcal food poisoning.
22. Methods of pasteurization.
23. Spoilage of food at low temperatures.

(7 x 2 = 14 weightage)

**Turn over**

## Section C

*Discuss in detail about any two questions.*

*Each question carries a weightage of 4.*

24. Biopesticides.
25. Plant-microbe interactions in soil.
26. Fermented milk products.

(2 x 4 = 8 weightage)