

D 91069

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Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(UG-CCSS)

Core Course—Microbiology

MB 5B 12—FOOD AND AGRICULTURAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

Section A

*Answer all the twelve questions.
Each question carries $\frac{1}{4}$ weightage.*

1. *Phytophthora* is a _____ pathogen.
2. _____ is an example of chemical food preservative.
3. *Rhizobium* fixes nitrogen _____
4. Hepatitis type _____ is transmitted through **contamitated** food or water.
5. Expand **HACCP**.
6. **Aflatoxin** is an example for _____
7. Symbiosis is a _____ interaction between organisms.
8. _____ is an **actinomycete** which fix nitrogen.
9. Salts and sugar can tie up water in food and reduce the _____
10. Yoghurt is a _____ milk product.
11. Spoilage of fatty food is mediated by the microbial enzyme _____
12. Expand **VAM**.

(12 x $\frac{1}{4}$ = 3 weightage)

Section B

*Answer **all** the **nine** questions in one **or** two sentences each.
Each question carries 1 weightage.*

- | | |
|-------------------------------------|-----------------------------------|
| 13. Radappertization . _____ | 14. Azola-Anabaena system. |
| 15. Single cell protein. | 16. Sauerkraut. |
| 17. Freezing. | 18. Pascalization . |
| 19. Protoplasmic resistance. | 20. Brucellosis. |
| 21. Amoebic dysentery . | |

(9 x 1 = 9 weightage)

Turn over

Section C

*Answer briefly on any **five** questions.
Each question carries 2 **weightage**.*

22. **Mycorrhizae.**
23. Fungal diseases in plants.
24. Production of wine.
25. Spoilage of milk.
26. Sources of contamination **of** food.
27. Non-symbiotic nitrogen fixation.
28. Preservation of food by chemicals.

(5 x 2 = 10 **weightage**)

Section D

*Answer any **two** questions.
Each question carries **4 weightage**.*

29. Discuss the principles of preservation of food in detail.
30. Give an account on **biofertilizers**.
31. Discuss the microbiology of fermented food products. Add a note on the spoilage of these items.

(2 x 4 = 8 **weightage**)