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(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2015

Third Semester

Complementary Course—APPLIED MICROBIOLOGY

(For B.Sc. Biotechnology)

[2013 Admission onwards]

Time : Three Hours

Maximum : 80 Marks

Part A (Short Answer Questions)

Answer all questions.

Each question carries 1 mark.

1. Define Aerobiology.
2. Name a chemical preservative used in food.
3. What is Xenobiotics ?
4. What is endotoxin ?
5. Name a bacteria which carries spoilage of milk.
6. What is Pasteurization ?
7. What is the use of Rennet ?
8. What is Biodegradation ?
9. Name two edible mushrooms.
10. Define Bioremediation.

(10 × 1 = 10)

Part B (Brief Answer Questions)

*Answer any **eight** questions.*

Each question carries 2 marks.

11. Explain Botulism.
12. What is Probiotics ? Point out the significance.
13. Give an account of single cell proteins.
14. Write about common pathogenic bacteria found in soil.
15. What are Biopesticides ? Name a biopesticide.
16. Write a note on milk products.
17. Explain fermentation. Point out the significance.
18. Mention significance of microbes in maintaining soil fertility.

Turn over

19. Give a note on bacterial insecticide.
20. Explain role of temperature in food spoilage.
21. Give an account of marine microbiology.
22. Write about spoilage of meat by bacteria.

(8 × 2 = 16)

Part C (Short Essay Type Questions)

Answer any six questions.

Each question carries 4 marks.

23. Write a note on water purification.
24. Explain biogas production.
25. Write about assessment of air quality.
26. Give an account of microbiological examination of food.
27. Write a note on essential fermented food products.
28. Explain production of edible mushroom.
29. Write an account of fresh water microbiology.
30. What are biofertilizers ? Point out the significance.
31. Write an account of Marine micro-organisms.

(6 × 4 = 24)

Part D (Long Essays)

Answer any two questions.

Each question carries 15 marks.

32. Write an account of food preservation.
33. Explain biogeochemical cycle. Write about nitrogen cycle and its significance.
34. Explain design and parts of a fermenter.
35. Give an account of microbial assessment of water quality.

(2 × 15 = 30)