	Reg. No····
FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014	
	(UG—CCSS)
Core Course—Microbiology	
MB 5B 12—FOOD AND AGRICULTURAL MICROBIOLOGY	
Time:	Three Hours Maximum Weightage: 30
	Section A
	Answer all the twelve questions. Each question carries ½ weightage.
1.	Musty or earthy odour of a freshly plouged field is due to the presence of the micro-organism
2.	Mutualistic association involving the exchange of nutrients between two species is called
3.	Narrow region around the plant root, influenced by root secretions and associated soil microorganisms is known as
4.	Specialized cells produced by cyanobacteria that are sites of nitrogen fixation is called
5.	is an example for a common denitrifying bacteria.
6.	Food borne pathogen which causes bacillary dysentry is —————
7.	Crown gall disease is caused by ————
8.	A species of micro-organism which produces a crystal protein used as a bioinsecticide is
9.	Example for a foodbore viral infection is————
10.	Micro-organism responsible for the characteristic flavour and appearance of blue-veined cheese is
11.	Full form of HACCP.
12.	Ergotism is caused by ——— (12 x 1 / ₄ = 3 weightage)
Section B	
	Answer all the nine questions in one or two sentences . Each question carries 1 weightage.
Comment on:	
13.	Yoghurt.
14.	Methylene blue reductase test.

(Pages : 2)

080

15. Clostridium botulinum.

16. Predation.

Name

Turn over

2 **D 71080**

- 17. UHT pasteurization.
- 18. Leghaemoglobin.
- 19. Starter culture.
- 20. Blue cheese.
- 21. Salting.

 $(9 \times 1 = 9 \text{ weightage})$

Section C

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

Write short notes on:

- 22. Pasteurization..
- 23. Plant disease resistance.
- 24. Phytophthora diseases.
- 25. Chemical food preservatives.
- 26. Food intoxication.
- 27. Microbial analysis of milk.
- 28. Fermented vegetables.

 $(5 \times 2 = 10 \text{ weightage})$

Section D

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

- 29. Microbial inoculants and their application in agriculture.
- 30. Elaborate on the application of microbial enzymes in **food industry**.
- 31. Explain the different plant microbe interactions.

 $(2 \times 4 = 8 \text{ weight.},$