D 11705	(Pages : 2)	Name
		Reg. No
FIFTH SEMESTER B.Sc. DI	EGREE (SUPPLEM)	- · · · · · · · · · · · · · · · · · · ·

(UG-CCSS)

Microbiology

	MB 5B 12 – FOOD AND AGRICULT	TURAL MICROBIOLOGY		
Time : Three Hours Maximum : 30 Weig		Maximum: 30 Weightage		
	Section A			
	Answer all the twelve	questions.		
1.	are micro-organisms which prefer	ow temperatures.		
2.	The red colour of meat can be maintained by	, which is a preservat ive.		
3.	Most of the spoilage bacteria prefer — pH.			
4.	. Expand TDT.			
5.	. Coliforms are Gram negative bacteria, indicators of————————————————————————————————————			
6.	6. The time required for HTST pasteurization at 71.7° C is			
7.	7. Halophiles prefer high <u>concentrations.</u>			
8.	is a gram positive anaerobic sporulating bacterium which can fix nitrogen non-symbiotically.			
9.	is the relationship between organisms in which one species of a pair is benefitted.			
	is the conversion of nitrates to nitrogen by micro-organisms.			
11.				
12.	12. Rhizobium is a <u>nitrogen fixer.</u>			
		$(12 \times \frac{1}{4}) = 3 \text{ weightage}$		
Section B				
	Answer all the nine questions in	one or two sentences.		
13.	3. Phytophthora. 14.	Brucellosis.		
15.	6. Mercaptans. 16.	Staphyloccus aureus.		
17.	7. Tobacco Mosaic Virus. 18.	Heterocyst.		
19.	D. Protoplasmic resistance. 20.	Azola-Anabaena system.		

21. Pascalization.

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

Turn over

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Section C

Answer briefly any **five** questions.

- 22. Food preservation by high temperature.
- 23. Endomycorrlizae.
- 24. HACCP.
- 25. Infectious hepatitis.
- 26. Fungal diseases of plants.
- 27. Production of wine.
- 28. Spoilage of milk and milk products.

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

Section D

Answer any two questions in detail.

- 29. Discuss the factors affecting growth of micro-organisms in food.
- 30. Give an account of biofertilizers.
- 31. Discuss food borne infectious and food intoxications by micro-organisms.

 $(2 \times 4 = 8 \text{ weightage})$