

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2021-22

FNTACOR12T-FOOD AND NUTRITION (CC12)

FOOD MICROBIOLOGY AND IMMUNOLOGY

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

	Answer any four questions from the following	$10 \times 4 = 40$
1.	What is sterilization? Discuss any two methods of media sterilization. What is pasteurization?	3+4+3
2.	What is contamination of food? What are the common changes occur in milk and milk product due to microbial action?	2+4+4
3.	Explain the importance of different phase in bacterial growth curve. Explain the factors affecting microbial growth.	5+5
4.	What are the common contaminant of cereals, fish and meat? Name two types of fungus having industrial importance.	(2×3)+4
5.	Write notes on any <i>two</i> of the following:	5×2 = 10
	(i) Vinegar and its manufacturing	
	(ii) Fungal food poisoning	
	(iii) Fermentation of cereals	
6.	Differentiate between the following:	$2\frac{1}{2} \times 4 = 10$
	(i) Humoral and Cellular immunity	<u>~</u>
	(ii) Food borne disease and Food poisoning	

(iii) Selective and Differentiate media

(iv) Antigen and Antibody.

CBCS/B.Sc./Hons./5th Sem./FNTACOR12T/2021-22

7. Define the following:

 $2 \times 5 = 10$

- (i) Selective media
- (ii) Miso
- (iii) Generation time
- (iv) Ropy milk
- (v) Yogurt.
- 8. Explain the principle of production of soy sauce. Explain your idea about 4+4+2 spoilage of canned products. What is sauerkraut?
- 9. Write a note on:

$$2\frac{1}{2} \times 4 = 10$$

- (i) Susceptibility of bread for spoilage
- (ii) Egg spoilage
- (iii) Vegetable spoilage
- (iv) Microbes responsible for fish spoilage.
- **N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

___×___

5066 2