CBCS/B.Sc./Hons./5th Sem./FNTACOR12T/2020, held in 2021



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2020, held in 2021

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 <i>four</i> questions from the following	$10 \times 4 = 40$
l .		Differentiate between innate and acquired immunity. Explain your understanding about vaccines.	5+5=10
2.		Explain your understanding about growth kinetics of bacteria. Write a note on factors affecting growth.	5+5=10
3.	(a)	What is a prion? What is prion disease? Is it having any relation with food consumption? Comment.	2+2+2
	(b)	What is generation time?	2
	(c)	Define water activity.	2
4.		Differentiate between the following: (i) Probiotics and Prebiotics	$2\frac{1}{2} \times 4 = 10$
		(ii) Sterilization and Pasteurization	
		(iii) Food-borne infection and Food-borne intoxication	
		(iv) Antigen and Antibody.	
5.		Explain your idea about food-borne diseases with any example of your choice.	5+3+2
	(b)	What is sauerkraut? Give one example each of facultative anaerobes and psychrotrophs.	
	(c)	Give one example each of facultative anacrobes and psychology and psychology	
6.		Define the following:	2×5=10
		(i) Immunoglobulin	
		(ii) Mycotoxins	
		(iii) Selective media	
		(iv) Cereals	



CBCS/B.Sc./Hons./5th Sem./FNTACOR12T/2020, held in 2021

- Write a note on methods of media sterilization. What is the role of temperature 4 + 3 + 37. in bacterial growth? What is the importance of serial dilution in microbial study?
- 8. Write short notes:
 - (i) ELISA
 - (ii) Meat spoilage.
- 9. (a) What is ropy milk?
 - (b) What is the composition of starter culture?
 - (c) Define enriched media with suitable example. Name two shellfish poisoning bacteria.
 - 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 I 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.

×

5+5=10

3+2+3+2=10