Seat No. :	

## **AK-102**

April-2023

## B.Sc., Sem.-IV

## 205 : Microbiology (Food and Dairy Microbiology)

Time	ime : 2:30 Hours] [Max. Mark				: 70
Instructions: (1) All the question				All the questions are compulsory.	
			(2)	Figures on the right-hand side indicates the marks.	
			(3)	Mention correct question number against the answer.	
			(4)	Draw figures wherever necessary.	
1.	Wha	t is fo	od bo	rne infection? Describe the role of bacteria in food borne infections.	14
				OR	
	(A)	Exp	lain in	trinsic factors that influence number of micro-organisms.	7
	(B)	Writ	e a no	te on food poisoning caused by Staphylococcus.	7
2.	Desc	ribe a	ıny <b>tw</b>	o methods of food preservation in detail.	14
				OR	
	(A)	Desc	cribe r	nicrobial spoilage of milk and milk products.	7
	(B)	Disc	uss fo	od preservation by low temperature.	7
3.	Desc	ribe r	ole of	microbes in production of different types of cheese.	14
				OR	
	(A)	Writ	e a no	te on Yogurt and kefir.	7
	(B)	Writ	e a no	te on Single cell protein.	7
4.			acteri detai	ological analysis of milk? Describe phosphatase test and acid-fast	t 14
			Ol	R	
	(A)	Writ	e a no	te on FSSAI and BIS.	7
	(B)	Disc	uss di	rect microscopic count method with its advantages and disadvantages.	7
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5. Give short and specific answers in 1-2 lines only: (any seven)

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- (1) Enlist names of any two mycotoxins.
- (2) What is botulism?
- (3) Write names of any two enteropathogens causing food borne infection.
- (4) Define perishable food.
- (5) What is rancidity?
- (6) Name any two bacteria causing discolouration in milk.
- (7) Define starter culture.
- (8) Write any two names of edible mushroom.
- (9) Differentiate the terms: probiotics and prebiotics.
- (10) Write use of Resazurin test.
- (11) Write the full form of HACCP and PDA.
- (12) What is AGMARK?

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