[This question paper contains 3 printed pages.]

Sr. No. of Question Paper: 6201 F-5 Your Roll No......

Unique Paper Code : 2201507

Name of the Paper : Food Microbiology

Name of the Course : B.Tech. Food Technology

Semester : V

Duration: 3 Hours Maximum Marks: 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

- 2. Question No. 1 is compulsory.
- 3. Attempt any five questions in all.
- 4. All questions carry equal marks.
- 1. Identify the organism:
 - (i) Neurotoxin producer
 - (ii) Cocci in bunches
 - (iii) Pathogenic protozoan
 - (iv) Gram positive cocci
 - (v) Causes ropiness in bread
 - (vi) Found in tetrads.
 - (vii) Food borne virus
 - (viii) Gram negative coccobacillary rod
 - (ix) Parasite in pork
 - (x) Probiotic bacterium

	(xi)	Causative organism of BSE		
	(xii)	Starter used in yoghurt		
	(xiii)	Causative agent of whiskers		
	(xiv)	Butyric acid producer		
	(xv)	Acid fast microorganism (1	5)	
2.	Give	the significance of following in food microbiology- (any three)		
	(i)	Dye Reduction Test		
	(ii)	Spores		
	(iii)	Freezing		
	(iv)	Gram Staining		
	(v)	Differential culture media (1	5)	
3.	(a)	Draw the bacterial growth curve and list the various phases of growth	(5)	
	(b)	Explain the role of OR potential and temperature in the bacterial growt	h.	
		(1	0)	
4.	Differentiate between- (any three)			
	(i)	Food Intoxication vs. Food Infection		
	(ii)	SPC vs DEFT		
	(iii)	Homofermentation vs. Heterofermentation		
	(iv)	Prokaryotes vs. Eukaryotes		
	(v)	Z value vs F value (1:	5)	

٥.	(a)	what is role of Lactic Acid Bacteria in the food fermentations?	(5)
	(b)	Give the method of manufacture along with the role of starter microon involved (any two):	ganisms
		(i) Vinegar	
		(ii) Sauerkraut	
		(iii) Tempeh ·	(10)
6.	(a)	What are the sources of contamination of food.	(5)
	(b)	Explain the type of spoilage in the following (any two):	
		(i) Milk	
		(ii) Canned Foods	
		(iii) Meat	(10)
7.	Writ	e short notes on (any three):	
	(i)	Role of Asepsis in microbiological laboratory	
	(ii)	Genetically Modified Foods	
	(iii)	Emerging pathogens of Concern	
	(iv)	Hurdle technology	(15)