## B.Sc. (Part—II) Semester—IV Examination INDUSTRIAL MICROBIOLOGY

				(Food, Dairy Microb	iology and Bio	ostatistics)			
Tim	e : T	hree	Hour	rs]		[Maximum Marks: 80			
Note:—(1) All questions are compulsory.  (2) Question No. 1 is objective typ					τ.				
					type and has no	o internal choice.			
			(3)	Q. No. 2 to Q. No. 7 has int	ernal alternate	l alternate choice carrying equal marks.			
			(4)	Draw neat and labelled diagr	ams wherever	necessary.			
1.	(A)	Fill	in th	e blanks :—			2		
		(i)		is the sugar present	in Milk.				
		(ii)	Pho	sphatase test is used to check	the effectiven	ess of of milk.			
		(iii)	In b	oread fermentation by yeast _	gas	is produced.			
		(iv)	Sala	monellosis is a type of	borne	e infection.			
	(B)			the correct alternative:			2		
		(i)		is the protein present	in milk.				
			(a)	Globulin	(b)	Casein			
			(c)	Keratin	(d)	None of the above			
		(ii)	Sau	erkraut is made by fermentate	es of:				
			(a)	Barley	(b)	Waste sulfite liquour			
			(c)	Cabbage	(d)	Molassess			
		(iii)	The	value which occures with high	est frequency in	a set of data is called as			
			(a)	Mean	(b)	Mode			
			(c)	Median	(d)	All the above			
		(iv)	Idli	is the most popular dish of:					
			(a)	Southern India	(b)	Northern India			
			(c)	Central India	(d)	None of the above			
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	(C)	Answer in one sentence :	4
		(i) What is mean?	
		(ii) What is yoghurt?	
		(iii) What is food poisoning?	
		(iv) Which organism is used for bread fermentation?	
2.	Des	cribe the following in brief:—	
	(a)	4	
	(b)	Food preservation using chemical preservative	4
	(c)	Food Intoxication.	4
		OR	
	(d)	Radiations for food preservations.	4
	(e)	Use of high osmotic pressure for food preservation.	4
	(f)	Food borne infections.	4
3.	Des	cribe in detail any two methods of pasteurization of milk.	12
		OR	
	Des	cribe in detail sources of contamination of milk.	12
4.	Des	cribe in detail the production of pickles in industry.	12
		OR	
	Des	cribe the process of Idli fermentation in detail.	12
5.	Des		
	(a)	Lassi.	4
	(b)	Leben.	4
	(c)	Kefir	4
		OR	
	(d)	Acidophilus milk.	4
	(e)	Yoghurt.	4
	(f)	Cheddar Cheese.	4
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6.	Describe in detail the microorganisms involved in spoilage of following food and mention the						
	met	methods of their preservation:					
	(a)	Fish.	4				
	(b)	Poultry Products.	4				
	(c)	Fresh meat.	4				
		OR					
	(d)	Describe in brief fermented sausage.	4				
	(e)	Briefly describe the microbiological quality of various sea food products.	4				
	(f)	Explain in brief the spoilage of processed meat.	4				
7.	Des	Describe in brief the following:—					
	(a)	Mode.	4				
	(b)	Tabulation and classification of data.	4				
	(c)	Chi-square test.	4				
		OR					
	(d)	Mean.	4				
	(e)	Graphical presentation of data.	4				
	(f)	t-test.	4				

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