## B.Sc. (Part-II) Semester-IV Examination

### 4S: INDUSTRIAL MICROBIOLOGY

(Food Dairy Microbiology and Biostatistics)										
Time : Three Hours]					[Maximum Marks: 80					
Note:—(1) ALL questions are compulse internal alternate choice.					question 1 is objective type without any					
			(2) Q. No. 2 to Q. No.	7 have equal mark	s and with internal alternate choice.					
			(3) Draw neat and labe	lled diagrams wher	ever necessary.					
1. (A) Fill in the blanks:										
		(i)	(i) A(short for picture diagram) is a way of showing data using pictures.							
		(ii)	Botulism is caused by	•						
		(iii)	Gamma rays are	radiation.						
		(iv)	Butter consists primarily o	f milk	mad g					
	(B)	Cho	ose the correct option for	following question	s: 2					
		(i)	The test performed for gr	ading of raw milk is	3					
			(a) Widal test	(b)	Ames test					
			(c) Coagulase test	(d)	MBR test					
		(ii)	is the major	is the major protein present in milk.						
			(a) Lactoglobulin	(b)	Casein					
			(c) Myosin	(d)	Lactalbumin					
		(iii)	Salmonellosis is a type of							
			(a) Food intoxication	(b)	Food intention					
			(c) Both (a) and (b)	(d)	None of the above					
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	(	(iv) N	Aea	surement of ce	ntral tendency	is possibl	e by :	
		(	a)	Size		(b)	Conclusion	
		(	c)	Mean		(d)	Result	
	(C)	Answ	er t	he following in	one sentence	each:		
	(	(i) I	)efi	ne Sample.				1
	(	(ii) F	000	d intoxication.				1
	(	(iii) E	lan	ching.				1
	(	(iv) F	eris	shable food.				1
2.	What	is Ca	nni	ing ? Describe	n detail any ty	wo method	ds of preservation of food mater	ials. 12
						OR		
	Defin	ic fres	h fo	ood and describ	e in detail foo	d poisonin	g with suitable examples.	12
3.	Desci	ribe th	e fo	ollowing in brie	ť:			
	(a) 5	Sourc	es o	of microbes in r	nilk.			4
	(b) (	Grade	s of	f milk.				4
	(c) l	HTST	mo	thod of Pasteur	rization.			4
						OR		
	(d)	Types	ofi	microorganisms	from milk.			4
	(e) l	Phosp	hata	ase test.				-1
	(f) I	LHTr	netl	hod of Pasteuri:	zation.			4
4.	Desci	ribe in	de	tail industrial p	production of S	Sauerkraut	. Add a note on spoilage of Sau	
								12
						OR		
	What	is fer	mei	ntation? Descr	ibe in detail co	mmercial	production of Pickles.	12
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5.	Des	scribe in brief the following:						
	(a)	Production of KEFIR.	٤					
	(b)	Spoilage of fermented milk product.	4					
	(c)	Acidophilus milk.	۷					
		OR						
	(d)	Make a list of different fermented milk products and give their Nutritional value.	4					
	(e)	How the fermented milk products are tested?	2					
	(f)	Briefly describe various pathogens present in milk products.	4					
6.	Des	Describe in brief the following meat and fishery products:						
	(a)	Sea food	4					
	(b)	Cured hams	4					
	(c)	Processed meat.	4					
		OR						
	(d)	Fermented Sausage	4					
	(e)	Fish Sausages	4					
	(f)	Poultry product.	4					
7.	Des	Describe the following in brief:						
	(a)	Any one method of presentation of statistical data.						
	(b)	Chi square test and its any one application.	4					
	(c)	Types of correlation.	4					
		OR						
	(d)	Histogram with suitable example.	4					
	(e)	) What is graphical presentation of data? Give its advantages and disadvantages.						
	(f)	Define the following:						
		(i) Sample						
		(ii) Parameter						
		(iii) Data						
		(iv) Observation.	4					

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