## PARUL UNIVERSITY PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTER INTERNAL EXAMINATION, August 2018 M. Sc. Semester III Subject: Microbiology

Paper Code: 11201201 Title of the paper: Food and Dairy Microbiology

## Date: 05/09/2018 Maximum Marks: 40 Instructions:

Time: 2:30 – 4:00

- 1. All questions are compulsory and options are given in first and second question only.
- 2. Numbers to the right of question indicate the marks of respective question.

Q. 1	Attempt any one question of the following.							
	(i) Describe step by step process of Vineger fermentation.							
	(ii) Discuss the raw materials used in sausage preparation.							
Q. 2	Attempt any three questions of the following.							
	(i) Discuss about Staphylococcus infection.							
	(ii) Discuss different types of Mycotoxin.							
	(iii) Discuss the good characters of starter culture.							
	(iv) Discuss the applications of baker's yeast.							
	(v) Name 7 Principles of HACCP.							
Q. 3	Do as directed. Attempt all five questions.							
	(i) Name the raw material used in soy sauce fermentation.							
	(ii) Name the acid which is used in non brewed method of soy sauce							
	preparation.							
	(iii) V	(iii) What food intoxication?						
	(iv) N	(iv) Name the cultures, which is used in baker's yeast production.						
	(v) Name any two food borne diseases.							
Q. 4	Write	Write correct option in your answer sheet for following 15 multiple (15)						
	choice questions.							
MCQ 1	Mycotoxin is							
	(A)	Chemical Secretion from	(B)	Chemical Secretion from Bacteria				
		Fungi in food.		in food.				
	(C)	Both of the above.	(D)	None of the above.				
MCQ 2	Campylobacter and Salmonella species account for over of all reported							
		s of bacteria related to food pois						
	(A)	100%.	(B)	50%				
	(C)	80%.	(D)	90%.				
MCQ 3		Time temperature abuse– Happens when the food is exposed to Temperature						
	Danger Zone for more than hrs.							

	$(\mathbf{A})$	4	<b>(D</b> )	24		
	(A) (C)	12.	(B) (D)	2.		
MCQ 4	. ,	h is not a fungal toxin?	(D)	2.		
MCQ 4	(A)	Afalatoxin,	(B)	Mycotoxin,		
	(C)	Okadaic acid	(D)	Ochratoxin.		
MCQ 5	The non-brewed process of soy sauce requires addition of					
meq 5	(A)	extra color and flavor agents.	(B)	Extra amount of salt		
	(C)	Extra amount of sugar	(D)	ascorbic acid		
MCQ 6	Preventing the growth of pathogens in food:					
mey o	(A)	danger zone	(B)	Cross-contamination		
	(C)	shelf life	(D)	Food preservation		
MCQ 7	Spreading pathogens from one surface to another:					
	(A)	sulfuring	(B)	Cross-contamination		
	(C)	autoclaving	(D)	Food preservation		
MCQ 8	The n	noromi must ferment for		•		
	(A)	several months	(B)	several years		
			( <b>T</b> )	40.1		
	(C)	One week	(D)	48 hrs.		
MCQ 9		h tea is not fermentated?				
	(A)	Green tea	(B)	Oolong tea		
1000 10	(C)	Black tea	(D)	puerh		
MCQ 10	is the detrimental effect of microorganisms in the food					
	(A)	Generation of flavor	(B)	Process of fermentation		
	(C)	Spoilage of food	(D)	All of the above		
MCQ 11		Which is not an advantage of the fermented food?				
	(A)	Makes the food more digestible	(B)	Increase storage life		
	(C)	Synthesize vitamins	(D)	Decrease intestinal microflora		
MCQ 12	Industrial microbiology, mainly depends on the phenomenon					
	(A)	Pasteurisation	(B)	Fermentation		
1400 10	(C)	Vaccination	(D)	Both b and c		
MCQ 13	_	the production of desirable product				
	(A)	Upstream process	(B)	Downstream process		
1400 14	(C) Surface fermentation (D) None of these					
MCQ 14						
	(A)	Molasses	(B)	Cellulose		
	(C)	Pork, veal, beef, lamb, chicken,	(D)	cabbage		
MCQ 15	and game The essential additives in the cheese making process is/are					
	(A)	starter culture	(B)	rennet		
	(C)	Both A and B	(D)	None of the above		

-- All the best--