PARUL UNIVERSITY

PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTER INTERNAL EXAMINATION, APRIL 2017

B. Sc. IV SEM

Subject: Microbiology

Paper C	Code: 11101253	Titl	e of the paper: Food Micro	biology		
Maximu	3/04/2017 im Marks: 40		Time: 12.30 p.m. to 02.	.00 p.m.		
 Instructions: All questions are compulsory and options are given in first and second question only. Numbers to the right of question indicate the marks of respective question. 						
Q. 1	Attempt any one question of the fol	lowing.		(08)		
	(i) State the detailed role of any two external factors affecting the					
	growth of the microbes in food.		11 .111 1 1 1 1			
	(ii) Write down the industrial product	iction of ai	ny distilled alcoholic			
Q. 2	Attempt any three questions of the	following		(12)		
Q	(i) Write a short note on Water activity as internal factor for microbial					
	growth	·				
	(ii) Write a short note on Microbia					
	(iii) What are the typical biochemical change in food spoilage?					
	(iv) Clostridium botulinum food po	_	tion.			
Q. 3	(v) Schematically describe the ChecDo as directed. Attempt all five que	-	uon	(05)		
Q. 5	(i) Name two physical methods for preservation of food.					
	 (ii) Penicillium spores is required in which kind of dairy product production? (iii) Which bacteria can be found in refrigerated food? (iv) What is canning? (v) Name two bacteria responsible for food borne intoxication. 					
Q. 4	Write correct option in your answer			(15)		
Q. 1	choice questions.	silect for	ionowing 13 manapie	(15)		
1500.4						
MCQ 1	Acetic acid bacteria is required for					
	(A) Vinegar production(C) Rhum production	(B)	Wine production			
MCQ 2	(C) Rhum production What are the intrinsic factors requi	(D) ired for the	Vodka production microbial growth on food?			
MeQ 2	(A) Temperature	(B)	Redox Potential			
	(C) Time of exposure	(D)	None of these			
MCQ 3	The yoghurt is made from					
	(A) Lactobacillus bulgaricus	(B)	Staphylococcus thermoph	iles		
3.500	(C) S. cremoris	(D)	Both a and b			
MCQ 4	The optimum water activity requir		-			
	(A) 0.93	(B)	0.98			

(D)

0.85

(C) 0.95

MCQ 5	Ergotism is caused by				
	(A) Claviceps purpurea	(B)	Aspergillus flavus		
	(C) Both of them	(D)	None of the above		
MCQ 6	Rancidity is the spoilage of				
	(A) Lipid	(B)	Protein		
	(C) Carbohydrate	(D)	None		
MCQ 7	is an anaerobic, Gram-positive, sporeforming rod causing food borne				
	intoxication				
	(A) Clostridium botulinum	(B)	Methanogens		
	(C) Vibrio sp	(D)	E. coli O257:H7		
MCQ8	The Botulin toxin production of is mediated by				
	(A) Bacteriophage	(B)	pH of the media		
	(C) Water content of the media	(D)	Bacterial spore		
MCQ 9	What are the intrinsic factors required for the microbial growth on food?				
	(A) Water activity	(B)	pН		
	(C) Redox Potential	(D)	All of these		
MCQ 10	Salmonellosis in patients is estimated to be 20-times higher than the				
	general population				
	(A) HIV infected patients	(B)	Oral Cancer patients		
	(C) Lung cancer patients	(D)	TB patients		
MCQ 11					
	(A) Saccharomyces cerevisiae	(B)	Streptococcus thermophillus		
	(C) Acetobacter acceti	(D)	Clostridium botulinum		
MCQ 12	Water activity can be expressed as				
	(A) p/p0	(B)	p0/p		
	(C) $p0 * p$	(D)	p0 + p		
MCQ 13	SEB' is produced by				
	(A) S. aureus	(B)	S. epidermis		
	(C) E. coli	(D)	None of them		
MCQ 14	The strain of Escherichia coli is an e	in of Escherichia coli is an emerging cause of foodborne illness.			
	(A) E. coli O157:H7	(B)	E. coli DH5a		
	(C) E. coli DH5b	(D)	E.coli T		
MCQ 15	Name of a distilled alcoholic beverage				
	(A) Beer	(B)	Vodka		
	(C) Rum	(D)	None		

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