WPZ--9891

(Contd.)

B.Sc. (Part—II) Semester—III Examination 3S: FOOD PROCESSING AND TECHNOLOGY (Food Preservation)

Time : Three Hours]						[Maximum M	arks:80		
				N.B. :— All que	stions are con	npulsory.			
1.	(A)	Fill in the blanks:							
		(i) Microorganisms that are found in all three domains of life is, and							
		(ii)	Moisture removal from a material is known as						
		(iii)	Mycology is the study of						
		(iv)	Temperature is fixed and time is varied is known as						
	(B)	Cho	ose 1	the correct answers:					
		(i)	Which of the following is an infection produced from canned foods?						
			(a)	Salmonellois	(b)	Botulism			
			(c)	Staphylococcal intoxication	(d)	None of these			
		(ii)	Col	d sterilization refers to the p	reservation of	food by:			
			(a)	Refrigeration	(b)	Radiation			
			(c)	Dehydration	(d)	Lyophilisation			
		(iii) Pasteurization is the process of heating of milk:							
			(a)	Above 121°C	(b)	Above boiling point			
			(c)	Below boiling point	(d)	Above 150°C			
		(iv)	Mo	ld and yeast are included in	:				
			(a)	Viruses	(b)	Parasites			
			(c)	Fungi	(d)	Bacteria	2		
٠	(C)	Ans	Answer the following in one sentence each:						
		(i)	(i) What is the effect of irradiation on vitamins?						
		(ii)	Give a reason for the use of drying to prevent food spoilage.						
		(iii)	Wh	at are the sources of contam	ination?				
		(iv)	Def	fine TDT.			4		
2.	(A)) Describe the principle of food preservation.							
	(B)	Give the role of yeast in food processing.							
	(C)	Clas	ssify	microorganisms.			4		
					OR				

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	(P) Give the role of Bacteria in food industry.		4			
	(Q) Give the morphological characteristics of Mo	old with example.	4			
	(R) Define perishable, semi-perishable, non-peri	shable food with examples.	4			
3.	. (A) Give the importance of Refrigeration and gi	ve the main parts of Refrigerator.	4			
	(B) What is slow and quick freezing? Give its	dvantages and disadvantages.	4			
	(C) What are the effects of thawing on food?		4			
	OR					
	(P) Explain the method of thawing with example	<i>t.</i>	4			
	(Q) Discuss about cold storage with example.		4			
	(R) Describe freezing; give its principles.		4			
4.	. (A) Describe pasteurization method; give its adv	antages and limitations.	4			
	(B) Give the importance of 'D' value in food pr	eservation.	4			
	(C) Describe the concept of Thermal Death Tim	e; give its explanation.	4			
	OR					
	(P) What are the principles of heat penetration	?	4			
	(Q) Describe the role of canning in food preserv	ation.	4			
	(R) Describe the sterilization and ultra heat treat	ment with examples.	4			
5.	Discuss factors affecting dehydration. Discuss Tunnel dryer; give its advantages and disadvantage with examples.					
	OR					
	Explain the following drying methods with exam	ple and give its advantages:				
	Belt dryer, fluidized bed dryer.		12			
6.	5. Discuss Radiation and Irradiation. Give its advan	stages, uses with example.	12			
	OR					
	Define sterilization; discuss about steam and dry l food processing.	neat sterilization with its importance and use	s ir 12			
7.	7. (A) Describe the properties of flexible packaging	g.	4			
	(B) Give the objectives of packaging with exam	ple.	4			
	(C) Give the names of eight types of packaging		4			
	OR					
	(P) Define food packaging: give its basic functi	on.	4			
	(Q) Describe low and high density polyethylene	with example.	4			
	(R) Give the advantages of polyvinyl chloride.		4			