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

4S: FOOD SCIENCE

(Food Preservation & Quality Control)

Time: Three			e Hours] [Maximum	Marks: 80				
Note :— (1)		(1)	ALL questions are compulsory.					
		(2)	Draw a neat diagram if necessary.					
1.	(A)	Fill	l in the blanks:	2				
		(i)	The Chemical name of vinegar is					
		(ii)	Benzoic acid is a Class Preservative.					
		(iii)) The removal of water due to action of salt/sugar is know as					
		(iv)	Caustic soda is a name of cleaning agent.					
(B) Mat		Mat	atch the pairs by selecting the correct alternative:	2				
		(i)	ECA (a) System of quality manage	ment				
		(ii)	HACCP (b) Artificial Sweetener					
		(iii)) Saccharin (c) Packaging Material					
		(iv)) Polyethylene terephthalate (d) Act of Indian Governmen	t				
	(C)	Ans	swer in one sentence :	4				
		(i)	Which method of dehydration is used for preparation of Milk Powder ?)				
		(ii)	What is 'Gray', the term related to irradiation?					
		(iii)) Define quality.					
		(iv)) Define blanching.					
2. Give an account of Food Spoilage, types and causes and common spoilage in bas				Food Stuffs.				
				12				
	OR							
			quality? Explain the factors contributing to the quality.	12				
3.	(A)	Enli	list the various methods of Food preservation.	4				
	(B)	Wha	hat are the principles of Food Preservation? Explain its importance.	4				
	(C)	Diff	fferentiate between Freezing and Refrigeration.	4				
OR								
	(P)		scuss the changes in Food during freezing.	4				
	(Q)		plain the mechanism of preservation by low temperature with examples.	4				
	(R)	Exp	plain freeze drying.	4				
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1.	(A)	Define drying. Explain the advantages and an advantages of sur why gristranke	er.com
	(B)	Explain spray drying with flow diagram.	4
	(C)	What is sterilization? Differentiate with pasteurization.	4
		OR	
	(P)	What is pasteurization? Give various methods.	4
	(Q)	Explain canning.	4
	(R)	Explain the effects of high temperature methods on food.	4
5.	(A)	Discuss the factors affecting the effectiveness of radiation.	4
	(B)	Explain the mechanism of preservation by salting & sugaring with examples.	4
	(C)	Explain smoking and acidification as a method of food preservation.	4
		OR	
	(P)	Explain the working of microwave oven.	4
	(Q)	Explain Class I preservatives.	4
	(R)	Explain preservation by concentration.	4
6.	(A)	Explain the benefits of HACCP.	4
	(B)	What is ECA? Explain the clause.	4
	(C)	What is Adulteration? Give the laws of Prevention.	4
		OR	
	(P)	Discuss the simple methods of detection of adulteration in milk and honey.	4
	(Q)	Give an account of Food Safety.	4
	(R)	Give the principles of HACCP.	4
7.	Disc	cuss the functions and classification of packaging. Discuss metal as a packaging ma	
			12
	01	OR	
	Giv	e an account of importance of Food labelling with the mandatory labeling.	12