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## B.Sc. (Part-II) Semester-IV Examination 4S: FOOD SCIENCE

(Food Preservation & Quality Control)

Tin	ne : Three Hours]	[Maximum Marks : 80	
No	te: — (1) ALL questions are compuls	ory.	
	(2) Draw a neat diagram if necessary	essary.	
1.	(A) Fill in the blanks:	2	
	(i) The Chemical name of vine	gar is	
	(ii) Benzoic acid is a Class	Preservative.	
	(iii) The removal of water due to	o action of salt/sugar is know as	
	(iv) Caustic soda is a name of _	cleaning agent.	
	(B) Match the pairs by selecting the correct alternative :		
	(i) ECA	(a) System of quality management	
	(ii) HACCP	(b) Artificial Sweetener	
	(iii) Saccharin	(c) Packaging Material	
	(iv) Polyethylene terephthalate	(d) Act of Indian Government	
	(C) Answer in one sentence:	4	
	(i) Which method of dehydration	on is used for preparation of Milk Powder ?	
	(ii) What is 'Gray', the term rel	lated to irradiation ?	
	(iii) Define quality.		
	(iv) Define blanching.		
2.	Give an account of Food Spoilage, types and causes and common spoilage in basic Food Stu		
		12	
		OR	
	What is quality? Explain the factors contributing to the quality.		
3.	(A) Enlist the various methods of Fo	od preservation. 4	
	(B) What are the principles of Food	Preservation ? Explain its importance. 4	
	(C) Differentiate between Freezing as	nd Refrigeration. 4	
		OR	
	(P) Discuss the changes in Food dur	ing freezing. 4	
	(Q) Explain the mechanism of preser	vation by low temperature with examples. 4	
	(R) Explain freeze drying.	4	
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4.	(A)	Define drying. Explain the adward FirstRanker comes of sur www.FirstRanker	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.	Dis	cuss the functions and classification of packaging. Discuss metal as a packaging ma	terial.
		OR	
	Giv	e an account of importance of Food labelling with the mandatory labeling.	12