AP-482

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

(Food Preservation and Quality Control)

Time : Three Hours]				s]	[Maximum Marks: 80
	Note :—(1)			All questions ar	e compulsory.
			(2)	Illustrate your a diagrams.	nswer with well labelled
1.	(A)	Fill	in the	e blanks :	
		(i)			od are the factors (Appearance/Textural)
		(ii)		ping out micr ervation is terme	oorganisms for fooded as
					(Incubation/asepsis)
		(iii)		table preservation	
				(Cann	ing/ Sensory evaluation)
		(iv)		l in Food for i	Waves of radiant energy its heating properties. ectromagnetic/Infrared)
THUÓ					2
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(B)	Match the pairs:		7. ((A)	What are the sources of Food Contamination?		
	(1) PFA Act	Cost of the material			4		
	(2) Selection of		((P)	Define the following terms:		
	packaging materials	Pathogenic microorganisms Microbacterium Tuberculosis 1954 microorganism 2			(i) Chelating agents.		
	(3) Pasteurization				(ii) Surfactants. 4		
	(4) Disease producing			(C)	What are biodegradable films? Explain its importance.		
(C)	Answer the following in	one sentence:	OR				
	(i) Define the term 'H	ACCP'.		(P)	Classify flexible packaging films. Give its limitations.		
	(ii) Name the cleaning	agents.		(1)	4		
	(iii) Explain one differ	rence between drying and	•	(Q)	What are the mandatory labelling requirements of		
	dehydration.				packed foods? Explain in short. 4		
	(iv) What is Sun Dryin	ġ? 4		(R)	What are the types of sanitizer used in food industry?		
2. (A)	Define food spoilage.	What are causes of food			4		
	Spoilage?	4					
(B)	Explain the changes occ	ur in milk when it is spoiled.					
		4					
(C)	What are the factors af						
	OR						
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	(P)	Explain textural and flavour factors that can	contribute						
-		to quality of foods.	4						
	(Q)	Classify food spoilage. Explain microbial	spoilage.						
			4						
	(R)	Explain quality of food.	4						
3.	What do you understand by food preservation? Describe								
	two	methods of food preservation by low temp	perature.						
			12						
		OR							
	Wha	t are the changes that occur during the cold t	reatment						
		od? Explain Freeze drying of foods.	12						
4.	Defii	ne thermal death time (TDT). Give its impo	rtance in						
	prese	ervation. Explain canning process.	12						
		OR							
	Wha	t are the commercial drying equipments	used for						
		g? Discuss the effect of drying on food pro							
			12						
5.		Discuss the advantages and disadvant	ages of						
	1	microwave heating of foods.	4						
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(B) Explain in brief the process of concentration reverse osmosis.(C) Explain preservation by concentration using he	4								
OR									
(P) Differentiate between Class I and Class preservatives. Give examples of each.	11 4								
(Q) Explain the action of Class II preservative. What 'Salting'?	at is 4								
(R) Explain Pickelling and Smoking.	4								
6. (A) Define Food Adulteration. What are its causes	?4								
(B) Discuss the methods for identifying the adultera in any five materials.	tion 4								
(C) What are food laws? Give the list.	4								
OR									
(P) Discuss MMPO, FPO in brief.	4								
(Q) What are the principles of HACCP System?	4								
(R) Discuss Agmark and CPA.	4								
11WO-42430 4 (C	ontd.)								