(R) What are the changes occur during freezing? AR - 574Fourth Semester B. Sc. (Part - II) Examination 4S FOOD SCIENCE (Food Preservation and Quality Control)

4. Explain the food preservation by high temperature. Differentiate beween Pasturization and sterilization.

OR

Define the terms HTST and LTST process. Describe the complete process of 'canning' of foods. 12

What is irradiation of foods? Explain the preservation by irradiation. What do you understand by 'Lethal dose'.

OR

What is class I and class II preservatives ? Explain the mode of action of addition of sugar as a preservative.

- (A) What is food adultration? How to prevent food adultration?
 - (B) What are food Laws? State their importance.

Time: Three Hours]

P. Pages . 5

[Max. Marks: 80

Note: (1) All questions are compulsory.

- (2) Illustrate your answers with well labelled diagrams.
- (A) Fill in the blanks:—
 - (1) —— is the quality factor in Food. (Flavour/Hedonic scale)
 - (2) Food spoilage is mainly caused by . (Microorganisms/Viruses)
 - (3) and are the methods of food preservation. (drying and fermentation/Incubation and plating)
 - (4) High temperature short time process has following set of parameters.

 $(63^{\circ}\text{C}, 30 \text{ min}/70^{\circ}\text{C}, 15 \text{ min})$

AR - 574

AR - 574

P.T.O.

((B) Choose correct	Choose correct alternatives to complete the		Texture factor.	4
	, ,	ods of drying are-	(C)	What is Food Spoilage? State of food spoilage.	e the causes
	•	ng and hot air drying/dehy- nd concentration)		OR	
	(ii) The class	(ii) The class I presentive is ———	(P)	What is flavour? How it co	ontributes to
	' '	(Sugar/Benzoic acid) nt for	(Q)	Explain spoilage in milk and n	nilk product.
	(Fruit Pr products)	(Fruit Product Order/milk and milk products)	(R)	Explain spoilage in meat and n	neat product.
	energy us	v) Microwaves are waves of radient energy used in food for its heating properties ————. (Electromagnetic/Infrared)			4
	properties		3. (A)	Why food is preserved? List rvation techniques.	s the prese-
•	(C) Answer in on	e sentence :	(B)	Explain the principle of food	preservation. 4
	(i) Define Fl	•	(C)	Explain drying.	4
		(ii) What is preservation ? (iii) What is sterilization ?		OR	
	(iv) Illustrate	the abbrevation "HACCP". 4	(P)	Explain the preseration by low	Temperature. 4
	Explain the followi		(Q)	Differentiate between freezing drying of foods.	and freeze
	(A) Apperance fac		A D - 274	2	11 S 1
AR-	3/4	2	AR - 574	3	2.1.0.

2.

	(C)	Explain MMPO in brief.
		OR
	(P)	What do you understand by 'HACCP concept ?
,	(Q)	What is food safety Act ? Explain.
	(R)	Explain BIS and CPA.
7.	(A)	State the functions of packaging materials
	(B)	Explain flexible packaging materials for food products.
	(C)	Discuss personal hygiene.
		OR
	(P)	What do you understand by biodegradable films as packaging material?
	(Q)	What is food labeling? Explain.
	(R)	Define cleaning with its importance.

www.sgbauonline.com