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3	Ho	ours / 100 Marks Seat No.	
	Instru	 <i>actions</i> - (1) All Questions are <i>Compulsory</i>. (2) Answer each next main Question on a new page. (3) Illustrate your answers with neat sketches wherever necessary. 	
		(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.	
		Marks	
1.		Answer any <u>FIVE</u> of the following: 20	
	a)	State the importance of food process engineering.	
	b)	Explain causes of spoilage of canned food.	
	c)	Explain role that government plays for fruits and vegetables preservation in India.	
	<i>d</i>)	Explain with examples food spoilage caused by mechanical	

- d) Explain with examples food spoilage caused by mechanical means.
- e) Compare single effect evaporator and a multiple effect evaporator.
- f) Explain principle of food preservation.
- g) What is thawing? State atleast two disadvantages of thawing.

(ii) Explain use of terpenoids as food flavour compound.

5.

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Answer any <u>TWO</u> of the following: a) (i) Explain basic theory of drying. (ii) State factors on which, dryer efficiency depend. b) Explain by means of a flow chart the canning process of fruit, giving a brief explanation on each step. c) Describe a physical and a chemical method of food

preservation.

6. Answer any <u>TWO</u> of the following:

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- a) (i) State factors influencing evaporation process.
 - (ii) Compare rising film evaporator and falling film evaporator
- b) List the different types of fermentation process, stating advantages and disadvantages of each.
- c) (i) State the changes that take place during freezing and storing. Suggest steps that need to be taken to minimise the problems caused during freezing and storing.
 - (ii) Explain problems associated in production vinegar.