ASSUME SUITABLE DATA WHOLOTON ......

B.E. Cchemical) csem. VIII ) (R) Dec 08.

. 5724-08. 20/1€/08 (REVISED COURSE)



(3 Hours)

[Total Marks: 100

1			
	(2) (3)	Question No. 1 is compulsory.  Attempt any four questions out of remaining six questions.  Assume suitable data if necessary.	
	(a)	What are the sensory characteristics of food? How sensory characteristics	5
	(b) (c) (d)	affects demand of processed food? Explain the process of peeling in detail. Define forming and explain construction and working of Bread Moulder. What are the types of packaging material?	5 5 5
a.	(a)	What are the different types of food fermentations? Give examples of	10
		each type. Explain the purpose of coating or compound coatings in food industry. How compound coating process in confectionery manufacturing?	
ei Ei	(a)	Explain how size reduction of dry food is carried out. Also explain the	10
	(b)	effect of size reduction on dry 100d.	
k.	(a)	Calculate the ratio of the rate of sterilisation and rate of quality loss at 120°C and 140°C assuming –  E <sub>a</sub> (C. botulinum) = 300 kJ/mol  E <sub>a</sub> (Loss of quality in food) = 125 kJ/mol	8
	(b)	E is activation energy.  Discuss pasteurization vs. sterilisation. What are the advantages of UHT over In-container sterilization?	12
5.	(a)	What are the various applications of enzymes in food industry? Give	10
		atleast four examples.  Discuss the method of cheese manufacture with the help of flowchart.	10
3.	(a)	Discuss the manufacture of biscuit. Give the nutritional and sensory properties	10
	(b)	of the product.  Explain the role of enzyme in food processing also give applications of following enzymes:-	10

7. Write short notes on (any four) :-

Proteases.

Carbohydrates Pectic enzyme

- (a) Vitamins in food
- (b) Food additives

(ii)

(iii)

- (c) Water activity
- (d) Baking and roasting
- (e) Freeze concentration.

20