

18BT641

Sixth Semester B.E. Degree Examination, June/July 2023 **Food Process Engineering**

Time: 3 hrs.		3 hrs.	Max. Marks: 100	
Note: Answer any FIVE full questions, choosing ONE full question from each module.				
	Module-1			
1 a. What are the basic functions of the nutrients in food? Enlist varie				
	b.	Define Rancidity. List out the factors and types of Rancidity.	(10 Marks) (10 Marks)	
	υ.	Define Rancialty. List out the factors and types of Rancialty.	(10 Marks)	
	OR			
2	a.	Explain the main colloidal systems prominent in food stating the phases	and giving relevant	
_	a.	examples for each.	(10 Marks)	
	b.	Classify the different types of browning reactions seen in food.	(10 Marks)	
	0.	classify the different types of elewining reactions seen in feed.	(20 1120)	
		Module-2		
3	a.	List various extrinsic and intrinsic factors of food spoilage.	(10 Marks)	
	b.	Describe the most probable number technique of enumeration of food mice	cro-organisms.	
			(10 Marks)	
		OR	y	
4	a.	Explain in brief:		
-		(i) Primary sources of micro organisms in food and food products		
		(ii) Synopsis of food borne molds	(10 Marks)	
	b.	Write short notes on:		
		(i) Standard plate count		
		(ii) Due-reduction test	(10 Marks)	
		Module-3		
5	a.	Explain preservation of food by high temperature techniques.	(10 Marks)	
	b.	Discuss on fermented foods – A history of improvement.	(10 Marks)	
915		OR V		
6	a.	State your point of view on:		
		(i) Application by radiation of food		
		(ii) Preservation of food by drying methods	(10 Marks)	
	b.	Tabulate the different types of fermented dairy products.	(10 Marks)	
		Madula 4		
7		Module-4 Name any five properties of enzymes that are important to food scientist.	(10 Mayles)	
e 7	a. b.		(10 Marks) (10 Marks)	
	U.	Define radiacedifeais. And a note on its importance.	(10 Maiks)	
		OR		
8	а	Define food packaging. Write the different techniques involved in food p	ackaging (10 Marks)	

- 8 a. Define food packaging. Write the different techniques involved in food packaging. (10 Marks)
 - b. Write a note on flavor enzymes.
 c. List any commercial enzymes and tabulate their applications in food industry.
 (05 Marks)
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Module-5

9 a. Discuss on the various thermal properties of frozen foods. (10 Marks)

b. How is food quality and safety ensured through Hazard Analysis and Critical Control Point (HACCP)? (10 Marks)

OR

10 a. Define GMP. Explain how GMP guidelines will help to maintain the quality of the product.
(10 Marks)

b. Explain the various forms of food freezing equipments.

(10 Marks)