Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

THIRD SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

Course Code: FT207

Course Name: INTRODUCTORY FOOD TECHNOLOGY					
Max. Marks: 100 Duration: 3 Hours					
		PART A Answer any three full questions, each carries 10 marks.	Marks		
1	a)	How will you determine the quality of a protein?	(6)		
	b)	Describe the functions of food.	(4)		
2	a)	Classify protein and explain the role of proteins in the biological system	(8)		
	b)	Consuming milk favours the bone development. Validate the statement	(2)		
3	a)	What is food spoilage? What are the various symptoms of food spoilage?	(7)		
	b)	Lactic acid bacteria is used in the production of yoghurt but it is also a spoilage microorganism. Explain the reason behind it?	(3)		
4	a)	Describe the effect of temperature, water activity and pH on the growth of	(7)		
		microorganism			
	b)	Differentiate between primary, secondary and tertiary processing of food	(3)		
		PART B			
5		Answer any three full questions, each carries 10 marks. Explain the status, challenges, value chain, interventions and growth drives of fruits and vegetable sector in India	(10)		
6	a)	Elucidate Mega food park scheme and MPEDA	(6)		
	b)	What is the role of food technologist in the society	(4)		
7		Derive and describe the pressure, force, energy, viscosity and work in detail.	(10)		
8	a)	The liquid pressure in a tank is given by the equation $Z=(P/\rho g)$ where z is the depth, P is the pressure, ρ id the density and g is the acceleration due to gravity. Show that the equation is dimensionally consistent.	(5)		
	b)	Explain the various system of measurements in units and dimension	(3)		
	c)	With examples state basic and derived units?	(2)		

		Answer any four full questions, each carries 10 marks.	
9		What is moisture content? Explain the various methods of determination of	(10)
		moisture content	
10	a)	Describe the various forms of water present in food material	(5)
	b)	What is the difference between moisture sorption isotherm and moisture	(5)
		desorption isotherm? Explain the reason behind that.	
11	a)	What is water activity?	(3)
	b)	Describe the methods by which water activity can be controlled in a food	(7)
		material?	
12		Write a short note on food packaging and its importance in food industry.	(10)
13		Explain the following food safety regulations	(10)
		(1) ISO 22000 (2) BIS (3) AGMARK	
14		Describe the various waste management techniques followed in food industries	(10)
