Reg No.: Name:			
	F	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY IFTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 201	19
		Course Code: FT305	
		Course Name: FOOD PROCESS ENGINEERING	
Ma	x. M	Tarks: 100 Duration:	3 Hours
		PART A Answer any two full questions, each carries 15 marks.	Marks
1	a)	Describe the criteria and methods of sorting of raw materials in food processing	(5)
		industry	
	b)	Distinguish between HTST and LTLT pasteurization	(10)
2	a)	What are the important peeling methods followed in food industries	(5)
	b)	What are the equipments used for making immiscible solvents into miscible	(10)
		one? Explain with its applications in food industry.	
3	a)	Discuss about major size reduction laws regarding food	(9)
	b)	Describe working of i) Ball mill ii) Disc mill iii) Hammer mill	(6)
		PART B	
		Answer any two full questions, each carries 15 marks.	
4	a)	Derive an equation for prediction of drying time in constant rate and falling	(12)
		rate period	
	b)	What do you meant by sorption isotherm?	(3)
5	a)	Explain construction and working of a spray dryer with neat sketch	(8)
	b)	Explain different types of baking ovens.	(7)
6	a)	Distinguish between shallow frying and deep fat frying	(5)
	b)	Explain the purposes of different ingredients used in baking	(10)
		PART C	
		Answer any two full questions, each carries 20 marks.	
7	a)	Explain VC refrigeration systems with major components	(7.5)
	b)	What are different refrigerants used and what are the properties of an ideal	(7.5)
		refrigerant?	
	c)	Explain air transport refrigeration mechanisms for food	(5)
8	a)	Explain different methods of precooling of food	(10)

	b)	Describe hurdle technology	(10)
9	a)	Explain different stages of a single screw extruder with neat sketch	(8)
	b)	Describe PEF heating of foods	(6)
	c)	Discuss about ohmic heating of food	(6)
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