Re	g No	D.: Name:	
	I	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FIFTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMI	BER 2019
		Course Code: FT307 Course Name: FOOD ANALYSIS	
M	Max. Marks: 100 Duration		
		PART A	
		Answer any two full questions, each carries 15 marks.	Marks
1	a)	Write an essay on the regulations of FSSA 2006.	(10)
	b)	Write short notes on the functions of EIC.	(5)
2	a)	Give details on the role of AOAC in food analysis.	(8)
	b)	Explain Karl Fischer Titration technique for moisture analysis.	(7)
3	a)	Define Sampling plan. Mention the sampling procedures as per FSSA 200	06. (10)
	b)	Explain the procedures for wet ashing and dry ashing.	(5)

PART B

Answer any two full questions, each carries 15 marks.

4	a)	Explain the principles of Spectroscopy in relation to Beer-Lambert's law.	(3)
	b)	Write an essay on UV-Visible spectrophotometer with neat sketch.	(12)
5	a)	Illustrate the principle and working of Fluorescence Spectroscopy.	(8)
	b)	How does separation takes place in Gel filtration chromatography.	(7)
6		Explain the principle, working and instrumentation of High performance liquid	(15)
		chromatography.	

PART C

Answer any two full questions, each carries 20 marks.

7	a)	Describe the principle and various types of ELISA with neat sketch.	(10)
	b)	Elucidate the methods used for protein analysis in food.	(10)
8	a)	Write about the principle and working of Agarose gel electrophoresis and PAGE.	(10)
	b)	Write an essay on the methods to analyse extraneous matter in foods.	(10)
9	a)	Write a note on the significance and advantages of biosensors in food analysis.	(10)
	b)	What are Ion sensitive electrodes and give its applications.	(10)