Reg No.:_____

Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Examination (Regular and Supplementary), December 2020

Course Code: FT307 Course Name: FOOD ANALYSIS

Max. Marks: 100			Hours	
PART A				
		Answer any two full questions, each carries 15 marks.	Marks	
1	a)	Write an essay on Codex Alimentarius Commission.	(10)	
	b)	What are the different types of food analysis?	(5)	
2	a)	Write short notes on NABL and EIC.	(8)	
	b)	Explain different types of Probability and Non-probability sampling.	(7)	
3	a)	Explain the direct methods for moisture estimation.	(8)	
	b)	Explain the Kjeldhal method of protein analysis.	(7)	
PART B				
	Answer any two full questions, each carries 15 marks.			
4	a)	Derive the equation for Beer-Lambert"s law and write its limitations.	(10)	
	b)	Explain the components of Column chromatography.	(5)	
5	a)	Explain the principle, instrumentation and working of AAS with a neat diagram.	(12)	
	b)	Define Supercritical fluids with examples.	(3)	
6	a)	Write an essay on Gas Chromatography.	(8)	
	b)	Write the procedure of Thin layer chromatography.	(7)	
PART C				
		Answer any two full questions, each carries 20 marks.		
7	a)	Explain the working principle of Capillary electrophoresis with a neat sketch.	(10)	
	b)	Explain the basic principle of ELISA and RIA.	(10)	
8	a)	Write notes on principle and procedure of Rocket electrophoresis.	(5)	
	b)	Give notes on the applications of immunoassay techniques.	(5)	
	c)	Explain the various methods to analyse extraneous matter in foods.	(10)	
9	a)	Write an essay on Thermal analysis in foods.	(10)	
	b)	What are the applications of Ion sensitive electrodes and biosensors in food	(10)	
		analysis?		