Reg No.:_____

Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh semester B.Tech examinations (S), September 2020

Course Code: CH409

Course Name:	ORGANIC	CHEMICAL	TECHNOL	OGY

Max. Marks: 100			3 Hours
		PART A	
1	a)	Answer any two full questions, each carries 15 marks. Explain any four types of food processing methods.	Marks (8)
	b)	Explain the manufacture of dextrin by starch hydrolysis. List out the major starch derivatives.	(7)
2	a)	Explain vegetable tanning and chrome tanning process in leather manufacture.	(6)
	b)	List any four types of waxes.	(2)
	c)	With neat flow diagram explain the manufacture of beer.	(7)
3	a)	Explain the manufacture of ethanol with neat flow diagram. Write the major reactions involved.	(8)
	b)	Explain the hydrogenation process for oil with neat flow diagram. Write the significance of the hydrogenation process for oils.	(7)
		PART B	
4	a)	Answer any two full questions, each carries 15 marks. With neat flow diagram explain the manufacture of soap. Write the major reaction involved in the process.	(9)
	b)	Explain the different types of detergents.	(6)
5	a)	Explain the manufacture of formaldehyde. Write the major reactions involved in the process.	(7)
	b)	What are the methods used for the production of vinyl chloride. Explain the manufacture of vinyl chloride by Acetylene – HCl reaction.	(8)
6	a)	With a neat flow diagram explain the manufacture of methanol. Write major engineering problems involved.	(7)
	b)	Explain the Kraft pulp process with neat diagram.	(8)
		PART C	
7	a)	Answer any two full questions, each carries 20 marks. Explain the manufacture of Acrylonitrile from propylene- ammonia oxidation. Write the major engineering problems involved.	(10)
	b)	Explain the manufacture of Penicillin with a neat flow diagram.	(10)
8	a)	Explain the classification of dyes. Differentiate chromophore, chromogen and auxochrome with respect to a dye.	(8)

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b)	Explain the production of Maleic Anhydride with a neat flow diagram. Write the	(10)
	major engineering problems involved.	
c)	Write any two applications of biotechnology in petroleum industry.	(2)

- 9 a) Explain the production of phenol by cumene process. Write the major reactions (12) involved.
 - b) With a neat flow diagram explain the manufacture of any one type of pesticide. (8)
