Reg No.:___

Name:___

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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

Course Code: CH409

Course Name: ORGANIC CHEMICAL TECHNOLOGY

Μ	Max. Marks: 100 Duration					
		PART A				
1	a)	Answer any two full questions, each carries 15 marks. Explain vegetable oil extraction process with neat flow diagram.	Marks (7)			
	b)	Write and explain any four animal oils.	(6)			
	c)	Write the significance of hydrogenation process of oils.	(2)			
2	a)	With a neat flow diagram explain the manufacture of ethanol by fermentation	(7)			
		process. Write the major chemical reactions involved in the process.				
	b)	Describe any four methods of food processing.	(8)			
3	a)	With a neat flow diagram explain the manufacture of raw cane sugar.	(8)			
	b)	Explain the manufacture of starch from maize with a neat flow diagram.	(7)			
		PART B				
		Answer any two full questions, each carries 15 marks.				
4	a)	Differentiate the sulphate and sulphite process for pulp manufacture	(3)			
	b)	Explain the stock preparation process in paper making.	(5)			
	c)	Explain the production of glycerine with a neat flow diagram.	(7)			
5	a)	Explain the manufacture of chloromethane with neat flow diagram. Write the	(8)			
		reactions involved.				
	b)	With a neat flow diagram explain the manufacture of formaldehyde. Write the	(7)			
		major engineering problems involved in the process.				
6	a)	Explain the manufacture of paper from wood pulp with a neat diagram.	(8)			
	b)	With a neat flow diagram explain the manufacturing of perchloroethylene. Write	(7)			
		the major reactions involved.				
	PART C					
7	a)	Answer any two full questions, each carries 20 marks. Write down the different methods used for phenol production.	(3)			

b) Explain the production of phenol by cumene process with a neat diagram. List (9) the uses of phenol.

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	c)	Explain the production of Maleic Anhydride with neat diagram. Write the	(8)
		reactions involved.	
8	a)	Explain the classification of dyes. What are the different chromophores used in	(9)
		various types of dyes.	
	b)	With a neat flow diagram explain the production of penicillin.	(9)
	c)	List any four pesticides commonly used.	(2)
9	a)	Explain the cumene manufacture with a neat flow diagram. Write down the	(8)
		major reactions involved.	
	b)	Explain any two industrial applications of biotechnology.	(6)
	c)	Write down the raw materials and the major reactions in the production of	(6)
		nitrobenzene and aniline.	
