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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Name:

FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

Course Code: CS303

		Course Code: C5505	
		Course Name: SYSTEM SOFTWARE	
Ma	ax. N	farks: 100 Duration: 3	Hours
		PART A Answer all questions, each carries 3 marks.	Marks
1		Write a sequence of instructions for SIC to set ALPHA = BETA*9+GAMMA.	(3)
2		List out the various registers used in SIC along with their purpose.	(3)
3			(3)
4		Write down the format of Modification record. Describe each field with the help	(3)
		of an example.	
		PART B	
		Answer any two full questions, each carries 9 marks.	
5		What are the various addressing modes supported by SIC/XE? With the help of	(9)
		an example, explain how to find target address during assembling in each case.	
6	a)	Distinguish between Application software and System Software	(3)
	b)	Let A,B & C are arrays of 10 words each. Write a SIC/XE program to add the	(6)
		corresponding elements of A & B and store the result in C.	
7	a)	What are the functions of Operating System?	(3)
	b)	With the aid of an algorithm explain the Second pass of a Two Pass Assembler.	(6)
		PART C	
		Answer all questions, each carries 3 marks.	
8		What are control sections? What is the advantage of using them?	(3)
9		Given an idle computer with no programs in memory, how do we get things	(3)
		started?	
10		What are the uses of assembler directives EXTDEF and EXTREF?	(3)
11		What is the use of bitmask in program relocation?	(3)
		PART D	
		Answer any two full questions, each carries 9 marks.	
12	a)	Distinguish between Program Blocks and Control Section	(2)
	b)	How the assembler handles multiple Program blocks?	(7)
13	a)	Write short note on Dynamic Linking	(3)

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