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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIFTH SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

		THE THEODINE DIRECTION OF LANDING TONION, WITH LOTA		
		Course Code: EE363		
		Course Name: COMPUTER ORGANIZATION AND ARCHITECTURE		
			ı: 3 Hour	
		PART A Answer all questions, each carries 5 marks.		
1		Differentiate mono bus and multi bus organization.	(5)	
2		Explain about instruction type and instruction format.	(5)	
3		How to construct an ALU, which perform basic arithmetic and logic operations?	(5)	
4		Explain horizontal and vertical organization of a micro-programmed control unit.	(5)	
5		What does memory hierarchy mean? What is its significance?	(5)	
6		Explain the concept of virtual memory and its implementation in computer system.	(5)	
7		Differentiate various types of interrupts.	(5)	
8		Explain about memory mapped I/O system.	(5)	
		PART B Answer any two full questions, each carries 10 marks.		
9	a)	With the help of a block schematic explain the basic operational concepts of a	(5)	
		digital computer.		
	b)	Explain different performance measures for comparing system performance.	(5)	
10	a)	Illustrate the steps involved in a typical memory read and write cycle with example?	(5)	
	b)	What is meant by addressing mode? Explain absolute and indirect addressing modes with suitable examples.	(5)	
11	a)	Explain the basic organization of a digital computer with description of each unit.	(5)	
	b)	Differentiate characteristics of RISC and CISC systems.	(5)	
		PART C Answer any two full questions, each carries 10 marks.		
12	a)	Explain floating-point representation of an integer.	(3)	

b) With the help of an example, explain Booths multiplication algorithm.

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Pages: 2
