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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SECOND SEMESTER M.TECH DEGREE EXAMINATION, APRIL/MAY 2018

Electronics & Communication Engineering Telecommunication Engineering

01EC6516 Embedded Systems For Communication

Answer any two full questions from each part Limit answers to the required points.

Max. Marks: 60

Duration: 3 hours

PART A

1.		Describe the internal memory organization of PIC microcontroller.	9
2.	a.	Discuss the I/O ports of PIC microcontroller.	4
	b.	Explain the various processor modes in ARM processor.	5
3.	a.	Draw the block diagram of an embedded system and explain its components.	6
	b.	Explain the various characteristics of an embedded system.	3
		PART B	
4.		Describe the various building blocks of UML.	9
5.		Explain the features of any two serial communication bus protocols.	9
6.		Describe the various network protocols used for internet connectivity in embedded systems.	9
		PART C	
7.		Explain the embedded system design process with an example.	12
8.		Draw the structure of a kernel and explain briefly the functions of each block.	12
9.	a.	Explain in detail the various features provided by VxWorks RTOS Kernel.	6
	ъ.	List down the system level functions of Micro C/OS II.	6