

Code No: RT32041

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III B.Tech II Semester Supplementary Examinations, April/May - 2019 MICRO PROCESSORS AND MICRO CONTROLLERS

(Common to Electronics and Communication Engineering, Electronics and Instrumentation

Engineering and Electronics and Computer Engineering)

Time: (3 hours Max. M	arks: 70
	 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is compulsory 3. Answer any THREE Questions from Part-B 	
	PART-A	
a)		[4M]
b)	What are the pins that are used to indicate the type of transfer in minimum mode?	[4M]
c)	Write note on dynamic RAM interfacing.	[3M]
d)	Explain the concept of memory paging.	[4M]
e)	How does 8051 differentiate between the internal and external program memory.	[3M]
f)	Write note on interrupts in PIC16C61/71.	[4M]
	PART-B	
a)	Explain the procedure of converting linear address into physical address.	[8M]
b)	Explain the flag register of 8086.	[8M]
a)	What is the major disadvantage of an 8086 operating in minimum mode and an 8086 operating in 8086	[8M]
b)	Why are buffers often needed on the address bus, data and control buses in microcomputer system?	[8M]
a)	Write an 8051 subroutine to control the 7-segment display operation.	[8M]
b)	Write about keyboard interfacing with 8051.	[8M]
a)		[8M]
b)	Discuss the instruction set of 80386.	[8M]
a)	Discuss about 8051 series microcontrollers in expanding the memory	[8M]
		[8M]
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a)	Explain how I/O ports and timers are significant in PIC microcontroller.	[8M]
b)	Discuss the Thumb instruction set of ARM controller.	[8M]
	 a) b) c) d) e) f) a) b) a) 	 Answering the question in Part-A is compulsory Answer any THREE Questions from Part-B PART-A a) Define the assembly directives. Give any two examples. b) What are the pins that are used to indicate the type of transfer in minimum mode? c) Write note on dynamic RAM interfacing. d) Explain the concept of memory paging. e) How does 8051 differentiate between the internal and external program memory. f) Write note on interrupts in PIC16C61/71. PART-B a) Explain the procedure of converting linear address into physical address. b) Explain the flag register of 8086. a) What is the major disadvantage of an 8086 operating in minimum mode and an 8086 operating in 8086 b) Why are buffers often needed on the address bus, data and control buses in microcomputer system? a) Write about keyboard interfacing with 8051. a) Discuss the real address mode and protected mode of 80386. b) Discuss about 8051 series microcontrollers in expanding the memory. b) What are the interrupts of 8051? Explain them briefly. a) Explain how I/O ports and timers are significant in PIC microcontroller.
