EKS-168

B.E. IV Sem. (CGPA) Electronics and Communication Engg. Examination 2017 MICROPROCESSOR AND MICROCONTROLLER

Paper: EL-404

Time Allowed: Three Hours

Maximum Marks: 60

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Note: Attempt all questions.

- Q.1. Write short answer to the following questions: 2x5=10
 - a) Explain the execution of PUSH and POP statements in 8085 by taking suitable example.
 - b) What is the function of direction flag in 8086? Explain with example.
 - c) What is RS232C? And where it is used?
 - d) What is the max. word length in 80486? How it effects the performance of a processor.
 - e) Why all pins of port 1 in 8051 are loaded with value FF before using it as input port.
- Q.2. a) Draw and explain the timing diagram of IN instruction in 8085.
 - b) Write a program in assembly language for 8085 to determine number of zero's in the number stored in register E and store the result in register D. 5

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	Q.5.	a)	Explain with diagram the working of IC8255 in	n
		b)		5 :t
			OR	5
		a)	Explain the working of IC8254 with different modes of its operation.	S
		b)	Discuss register structure of IC8259	5 5
	Q.6.	a) b)	If an 8051 microcontroller has on-chip and off-chip ROM how are they accessed? Which Pins/signals are used in external program memory. Explain with diagram. Describe different modes of operation of times in 805 with related SFR's and start/stop mechanism. OR	d
		a)	Explain execution of the following in a	5
			ii) SUBB A, 56H	
1			iii) MOVXA, @DPTR	
			iv) ANL 46H, #23H	
			v) ACALL, address	
		0)	Write a program for 8051, to add two data bytes usin register direct and register indirect addressing modes	g
	A Gara		기가 되는 아이들이 얼마나 아름은 얼마 생생이나 아들에게 하는데 그는 것이다.	

