Total number of pages: 1
ROLL No: Total number of questions:06
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B.Tech.    ECE    5th Semester
Microprocessors & Microcontrollers (RP.)
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Subject Code: BTEC-504A
Paper ID: M/18 Max Marks: 60
Time allowed: 3 Hrs (2015 batch onwards) Max Marks: 30
Important Instructions:  * All Questions are Compulsory
Assume any missing data
PART A (2×10)
Q. 1. Short-Answer Questions:
a) What is the use of SOD and SID pins of 8085?
b) Why address and data lines are multiplexed?
c) Define T-state, instruction cycle and machine cycle?
d) What do you mean by pipelining in context to 8086?
e) Differentiate between 8085 and 8086 microprocessors?
f) What do you know about register banks used in 8051 microcontroller?
g) What is the size of internal RAM and internal ROM in 8051 microcontroller?
h) What is the need of IC 8253?
i) What is USART? Why MAX232 is required for serial communication?
j) Differentiate between Synchronous and Asynchronous mode of data transfer?
PART B (8×5)
c 0005 is classified? Discuss about 4:05 COL
Q. 2. How the instruction set of 8085 is classified? Discuss about different CO1 addressing modes of 8085 giving an example of each?  OR
Draw the architecture of 8086 microprocessor and explain the significance of CO1 different registers being used in 8086?
Q. 3. How does a microcontroller differ from a microprocessor? Draw pin diagram CO2

	of 8051 micro-controller and explain the functions of different pins?  OR  How many flags are used in 8051? What is the significance of flags and PSW?  Explain briefly?	CO2
Q. 4.	교육하는 이 이 보다 다 되었다면 그리는 그는 그는 그리고 있다면 되었다면 하셨다면 하는 이번 계속 없었다.	CO3
	OR Explain the following instructions of 8051:  (a) MOV @R2,30H  (b) INC DPTR  (c) MUL AB  (d) XRL A,R1  (e) SETB C	CO3
Q. 5.	What is the difference between BSR mode and Input/ Output mode of 8255PPI? Write a program to blink LED connected at Port C bit 4 of 8255? Assume address of control word register of 8255 as 83H. Use BSR mode?  OR	CO4
	Draw a neat interfacing diagram to show how ADC0808/0809 is interfaced with 8051? Write steps used to get data from ADC0808/0809?	CO4
Q. 6.	Discuss about different types of timer registers used in 8051? Write the steps used to program timer in mode 1 to generate a time delay?  OR	CO3
	Explain the different Jump, Loop and Call instructions used in 8051?	CO3

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