Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year II Semester Supplementary Examinations February-2022
MICROPROCESSORS & MICROCONTROLLERS
(Common to ECE, EEE & CSE)

Time: 3 hours   Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	List the major features of 8085 microprocessor.	6M
	b	Describe how timing and control signals are generated in 8085 μP.	6M

OR

2	Draw the pin diagram of 8085 μP and explain the functionality of each pin.	12M

UNIT-II

3	a	Mention the differences between 8085 and 8086 microprocessors.	6M
	b	Mention the features of Pentium processor.	6M

OR

4	a	Explain the functionality of pins used in the Minimum mode of 8086 μP.	6M
	b	Draw and explain the flag register of 8086 microprocessor.	6M

UNIT-III

5	With the help of a neat block diagram, Explain the internal architecture of 8051 microcontroller in detail.	12M

OR

6	a	Describe how the memory is organised in 8051 μC in detail.	10M
	b	Define counter.	2M

UNIT-IV

7	a	Explain various assembler directives of 8051 μC.	10M
	b	Define interrupt.	2M

OR

8	a	Define ISR, Interrupt vector.	4M
	b	Explain how the ISR is implemented with an example.	8M

UNIT-V

9	a	List the features of 16X2 LCD display.	3M
	b	Draw and explain the pin Diagram of 16x2 LCD display.	9M

OR

10	a	Write a short note on Analog to Digital Converter.	3M
	b	Explain the various modes of operation w.r.t serial port in 8051 μC.	9M

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