SEAT No. :

PC-50

[6360]-51

T.E. (E&TC) (Insem)

MICROCONTROLLERS

(2019 Pattern) (Semester - I) (304184)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates :

1) *Answer Q1 or Q2, Q3 or Q4.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right side indicate full marks.*
4) *Use of Calculator is allowed.*
5) *Assume Suitable data if necessary*

Q1) a) Compare Microprocessor and Microcontroller **[5]**

b) Draw and explain PSW register of 8051. **[5]**

c) State salient features of 8051 microcontroller. **[5]**

OR

Q2) a) Compare RISC and CISC processor **[5]**

b) Explain TMOD register in detail. **[5]**

c) Draw and explain internal memory organization of 8051. **[5]**

Q3) a) Interface 8051 with 7 segment display and write a C program to show counting from 0 to 9 on to it. **[7]**

b) Write a C program to flash 8 LEDs connected to PORT2 of 8051 microcontroller with timer delay program. **[8]**

OR

Q4) a) Write a C program to send message 'ISRO' to COM port of PC at 9600 baud rates. Assume XTAL frequency=11.0592 MHz **[7]**

b) Describe interfacing of ADC 0808/0809 to 8051 microcontroller with necessary diagram. **[8]**

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