

Total No. of Questions : 4]

SEAT No. :

PC-50

[Total No. of Pages : 1

[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]
