

[4263] - 274

T.E. (E & TC)

MICROCONTROLLERS AND APPLICATIONS

(2008 Pattern) (Sem. - I)

Time : 3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) Answer three questions from Section -I and three questions from Section - II.
- 2) Answers to the two sections should be written in separate answer books.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.
- 5) Assume suitable data, if necessary.

SECTION - I

- Q1)** a) What are the different selection criteria of microcontroller. [8]
b) Compare Von Neumann & Harvard architecture. [8]

OR

- Q2)** a) Give the difference between Microprocessor and Microcontroller. [8]
b) Explain the need of power saving mode in Microcontroller. Explain power down & idle mode in details. [8]

- Q3)** a) Explain structure of internal memory organization of 8051 & why the stack pointer is initialized to 07h after a reset. [9]
b) Explain port structure of 8051 in detail and configure ports as input and output. [9]

OR

- Q4)** a) Explain the format of Tmod register of 8051 μ c. in detail. [9]
b) Explain the significance of PSW register with the help of example, write assembly code to select R7 register from bank3 to store hex value 08h available in RAM memory location 20h. [9]
- Q5)** a) Write assembly Language program to find positive & negative number from given array. [8]
b) Write a program to transfer message "PUNE" serially at baud rate of 4800 in mode 1, also explain the technique how to double a baud rate. [8]

OR

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