

[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

Microcontrollers And Applications Previous Question Papers

Ying Liu



Microcontrollers And Applications Previous Question Papers:

Decoding **Microcontrollers And Applications Previous Question Papers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Microcontrollers And Applications Previous Question Papers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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