

Subject : I. T. - Elective-II c) Embedded Systems Design & Programming

Day : Thursday
Date : 09/06/2016



Time : 02.00 P.M. TO 05.00 P.M.
Max Marks : 80 Total Pages : 1

N.B.:

- 1) Attempt **ANY FOUR** questions from Section – I and attempt **ANY TWO** questions from Section – II.
 - 2) Answers to both the sections should be written in the **SAME** answer book.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** What is Application specific control circuitry? [12]
- Q.2** Explain the role of ADC and DAC in embedded system design. [12]
- Q.3** Explain the various Embedded System development tools. [12]
- Q.4** Distinguish between 8 bit and 16 bit microprocessor. [12]
- Q.5** How to interface LED display with an embedded system? [12]

SECTION – II

- Q.6** Write a 8051 assembly language program to perform the multiplication of two 8-bit numbers. [16]
- Q.7** How the software and hardware interrupts are handled in 8051 microcontroller? [16]
- Q.8** Write short notes on **ANY TWO** of the following: [16]
- a) Latches and buffers
 - b) Embedded system operating systems
 - c) MCS – 51 Kit

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