

Subject : I.T. Elective-III d) Embedded System Interfacing & Embedded Communication System

Day : Monday
Date : 06/06/2016



Time : 10.00 A.M. TO 1.00 P.M.
Max Marks : 80 Total Pages : 1

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and **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.
-

SECTION - I

- Q.1** Explain the working of Servo motor interfacing with diagram. [10]
- Q.2** What is Digital to Analog Converter (DAC) interfacing? Design the diagram of Interfacing of DAC with 8051. [10]
- Q.3** With the help of diagram, discuss in detail keyboard interfacing. [10]
- Q.4** What is interrupt? Explain the various hardware interrupts with example in Embedded System. [10]
- Q.5** With the help of diagram, describe working and significance of USB communication. [10]
- Q.6** Describe in detail LAN communication with diagram. [10]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
- a) Ethernet connectivity
 - b) Parallel port communication
 - c) Interrupt service routines

SECTION - II

- Q.8** Draw Interfacing diagram for LCD with 8051 Microcontroller, write an Assembly Language program to interface LCD with 8051 microcontroller. [15]
- Q.9** Draw Interfacing diagram for Keyboard with 8051 Microcontroller; write an Assembly Language program to interface Keyboard with 8051 microcontroller. [15]
- Q.10** What is system Integration? Explain the need and significance of the system Integration. [15]

* * * *