

Scheme – I
Sample Question Paper

Program Name : Diploma in Medical Electronics
Program Code : MU
Semester : Fourth
Course Title : Microcontroller and Embedded System
Marks : 70

22434

Time: 3 Hrs.

Instructions:

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

Q.1) Attempt any FIVE of the following.

10 Marks

- a) Differentiate between microprocessor and microcontroller based on the following parameters.
 - i) Memory
 - ii) Timers/counters and Interrupts
- b) State two applications of embedded system
- c) Draw the format of SCON register
- d) List two advantages of embedded system.
- e) Draw interfacing diagram of relay with 89C51 microcontroller.
- f) Draw the format of synchronous and asynchronous data communication
- g) List the various serial and wireless communication protocols.

Q.2) Attempt any THREE of the following.

12 Marks

- a) List the software development tools in an embedded system and state the function of Compiler and Debugger.
- b) Develop an 89C51 C program to read the number 1 from Port 1, number 2 from Port 2 and then add them. Store the result and send it to Port 3.
- c) List alternate functions of Port 3 of 89C51 microcontroller.
- d) Develop 89C51 C program to blink the LED interfaced to pin P1.7

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