Q25   Define role of I/O ports in 8051.

Q.26   Write five differences between Microprocessor and Microcontroller?

Q.27   Define role of pin 10-17 of Mircocontroller 8051.

Q.28   Define Role of ALU inside 8051

Q.29   Explain role of embedded system.

Q.30   What are the assembly operations used in Microcontroller?

Q.31   Define role of compiler.

Q.32   Define serial port operation.

Q.33   Differentiate 8051 with PIC Microcontroller.

Q.34   Write few microcontrollers applications used in health care machines?

Q.35   What is keypad interface?

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. **(2x10=20)**

Q.36   Define 8051 with all addressing mode in details.

Q.37   Write applications of PIC controller in detail.

Q.38   Write applications of Microcontroller in field of Bio medical Engineering and machine details based on Microcontroller?

(40)   (4)   183243

**4th Sem. / Branch : Medical Electronics
Subject : Mircocontrollers Applications
in Medical Technology)**

Time : 3 Hrs.   **M.M. : 100**

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. **(10x1=10)**

Q.1   Bit consists of _____.

a)   0   b)   1

c)   0 or 1   d)   None of these

Q.2   Term for removing an error is known as

a)   Bugging   b)   Hold

c)   Debugging   d)   None of thsse

Q.3   8051 consists of _____ bit.

a)   1   b)   2

c)   8   d)   None of these

Q.4   Type of language used are:

a)   Low level programming language

b)   High level programming language

c)   None of these

d)   Both A & B

Q.5 How many bytes of memory 8051 micro controller can hold?

a) 128   b) 10

c) 120   d) 300

Q.6 PIC stands for :

a) Power Input Controller

b) Post Input Controller

c) Peripheral Interface Controller

d) None of these

Q.7 Computer language is also known as :

a) High Level   b) Coarse

c) Assembly language   d) None of these

Q.8 A/D converter and D/A converter are used for

a) Analog to digital   b) Digital to analog

c) Analog to done   d) Both A & B

Q.9 LED stands for :

a) Light error device   b) Light Emitting Diode

c) Both   d) None of these

Q.10 Operations for mathematical calculations can be:

a) Arithmetic   b) Logical

c) Analogus   d) Arithmetic & Logical

Section-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Write two properties of 8051 Microcontroller?

Q.12 How many pins are used in 8051 Microcontroller?

Q.13 How many interrupts are used in 8051 Microcontroller?

Q.14 How many numbers of flags used in 8051 Microcontroller?

Q.15 Write another name of Mircocontroller 8051?

Q.16 Define 8-bit data bus.

Q.17 Write name of Coding language used for 8051 Microcontroller?

Q.18 Define I/O ports of 8051.

Q.19 Define RAM.

Q.20 Which technology is used to built Microcontroller 8051?

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)

Q.21 Explain Microcontroller with its basic building blocks?

Q.22 Draw Pin Diagram of 8051.

Q.23 Write Five properties of 8051 Microcontroller?

Q.24 Explain role of CPU in 8051.