

- Q.25 What is DMA controller.
 Q.26 Write differences between 8051 and 8031.
 Q.27 Define A/D converter with suitable example.
 Q.28 Write few applications of 8031.
 Q.29 Write a note on all instructions used to operate Microcontroller.
 Q.30 Write a note on internal and external memory.
 Q.31 Write a note on coding used for Microcontroller.
 Q.32 Write Five features of 8051.
 Q.33 What are the limitations of Microcontroller 8051.
 Q.34 Why PIC microcontroller used in medical field.
 Q.35 Write few advantages of 7-segment display.

SECTION-D

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

- Q.36 Explain 7 segment interface and LCD with diagram.
 Q.37 Write a note on Instruction and Interrupts used in 8031 Microcontroller with block diagram.
 Q.38 Write a note on all applications of Microcontroller in Communication and in medical electronics field.

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5th Sem / Med. Eltx

Subject:- Microcontrollers and Embedded System

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Read-only memory holds _____ kb of storage in 8051
 a) 4 kb b) 1 kb
 c) 0 kb d) 128 kb
- Q.2 Debugging means
 a) removing error b) hold
 c) code d) none of these
- Q.3 Assembly language is known as
 a) loaded
 b) low level programming language
 c) High level programming language
 d) none of these
- Q.4 D/A converter is used for
 a) Dialog to aid b) disc to aid
 c) Digital to Analog d) none of these

Q.5 Logic 1 is meant for _____ of power supply.

- a) 0v
- b) 100v
- c) 5 v
- d) 1000 v

Q6 If pins are arranged as inputs, then it provides a _____ current at pull-up resistors.

- a) low
- b) weak
- c) high
- d) none of these

Q.7 LCD stands for

- a) Light Code Do
- b) Least Code Do
- c) Light Crystal Display
- d) none of these

Q8 SFR stands for

- a) Special Function Register
- b) Sight Fight Right
- c) Signal For Right
- d) none of these

Q.9 Which alters the program for some time temporary.

- a) Interrupts
- b) Input
- c) ice
- d) none of these

Q.10 How many interrupt signals exist in 8051.

- a) 1
- b) 2
- c) 5
- d) 0

SECTION-B

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

Q.11 Write one application of 8031 Microcontroller.

Q.12 Write pin number of Input and output port in 8051 Microcontroller.

Q.13 How many addressing modes are used in 8051 Microcontroller.

Q.14 For disabling the interrupts _____ register is set to zero.

Q.15 Define 7-segment interface.

Q.16 How many instructions used in 8051.

Q.17 RTC stands for _____.

Q.18 What is embedded system.

Q.19 Define Compiler.

Q.20 What do you mean by bug.

SECTION-C

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

Q.21 Write a note on RTC.

Q.22 Define simulators.

Q.23 Define Compilers operations.

Q.24 How PIC is different from another microcontroller.