

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Draw the block diagram of 8051 micro controller & explain each block in detail.
- Q.24 What are different addressing modes available in 8051? Explain them with example.
- Q.25 What do you mean by AVR ? Architecture of AVR in detail.

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4th Sem / I&C

Subject : Micro controller and Embedded system.

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 MOVA, B is an example of which addressing mode?
- a) Indirect b) Direct
c) Implied d) Register
- Q.2 The 8051 has _____ pins.
- a) 32 b) 40
c) 36 d) 44
- Q.3 Accumulator is a _____ bit register
- a) 8 b) 16
c) 4 d) 12
- Q.4 Micro controller often have
- a) CPU b) ROM
c) RAM d) All of the above

Q.5 The internal RAM memory of the 8051 is

- a) 32 bytes
- b) 64 bytes
- c) 128 bytes
- d) 256 bytes

Q.6 What is mean by ALU

- a) Arithmetic Logic unit
- b) Arithmetic Logic Upgrade
- c) Arithmetic Logic unsigned
- d) Arithmetic Logical unsigned

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define micro controller.

Q.8 CPU stands for _____.

Q.9 Define memory.

Q.10 Define instruction

Q.11 Write the full form of ROM

Q.12 Define program.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain oscillator & clock of 8051 micro controller

Q.14 Write any four applications of embedded system.

Q.15 Explain two arithmetic instruction of 8051 with suitable example.

Q.16 Explain embedded hardware units & devices in a system.

Q.17 Explain briefly ARM micro controller

Q.18 Write any five differences between micro controller and microprocessor.

Q.19 Define interrupt. Explain types of interrupt in brief

Q.20 Explain different I/O ports of 8051.

Q.21 Explain the concept of real time operating system.

Q.22 Explain timer / counters used in 8051.