

SECTION-D

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

Q.23 How LCD is interfaced with 8051, explain with diagrams. (CO5)

Q.24 Explain different modes of timer operation in 8051. (CO3)

Q.25 With the help of neat diagram, explain in detail the architecture of 8051 microcontroller. Show all its registers. (CO1)

(**Note:** Course outcome/CO is for office use only)

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4th Sem. / Automation and Robotics

Subject : Microprocessor and Micro-Controllers

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 8051 Microcontroller has _____ no. of parallel ports. (CO1)

- a) 2 b) 4
c) 8 d) 12

Q.2 8051 has internal RAM of _____ byte. (CO1)

- [illegible]

Q.3 8051 has _____no. of interrupts. (CO3)

- a) 4 b) 5
c) 6 d) 7

Q.4 8051 timer can operate in _____ no. of modes.
(CO3)

- a) 4 b) 3
- c) 2 d) 1

Q.5 MUL AB is _____ type of instruction. (CO2)

- a) Logical b) Arithmetic
- c) Boolean d) Branching

Q.6 8051 is a _____ pin I.C. (CO1)

- a) 24 b) 32
- c) 36 d) 40

SECTION-B

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

Q.7 Expand the term CISC. (CO1)

Q.8 Write any one logical instruction. (CO2)

Q.9 What is function of reset in interrupts? (CO3)

Q.10 What is function of Program counter? (CO1)

Q.11 Expand the term SCON & PCON. (CO3)

Q.12 Define assembly language. (CO2)

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SECTION-C

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

Q.13 Draw PSW of 8051. (CO1)

Q.14 Differentiate between microprocessor & microcontroller. (CO1)

Q.15 What is function of DAA & XCH instruction? (CO2)

Q.16 How time delay is generated in 8051? (CO3)

Q.17 What is function of Keil compiler and debuggers? (CO2)

Q.18 What are different types of interrupts in 8051? Arrange them priority wise. (CO4)

Q.19 Differentiate between Serial & Parallel transmission. (CO4)

Q.20 What are main advantages of using C language for programming of 8051? (CO2)

Q.21 Explain in brief the various addressing modes of microcontrollers. (CO3)

Q.22 What is DC interface in microcontrollers? (CO5)

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