

- Q.5 Which of the following is true about microprocessors?
- It has an internal memory
 - It has interfacing circuits
 - It contains ALU, CU and registers
 - It uses Harvard architecture
- Q.6 How many bytes of bit addressable memory is present in 8051 based microcontrollers?
- 8 bytes
 - 32 bytes
 - 16 bytes
 - 128 bytes

SECTION-B

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

- Q.7 Full form of ALU _____.
- Q.8 Timer 0 is a _____ bit register.
- Q.9 8051 microcontroller is of _____ bit.
- Q.10 Number of I/O ports in the 8051 microcontrollers?
- Q.11 8051 is a _____ Pin IC.
- Q.12 LCD stands for _____.

SECTION-C

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

- Q.13 Write any four comparisons between microprocessor and microcontroller.

- Q.14 Explain SBUF in 8051 micro controller.
- Q.15 What is serial port communication.
- Q.16 Write any four applications of 8051.
- Q.17 Define addressing mode in 8051.
- Q.18 Draw pin diagram of 8051.
- Q.19 Explain any four 8051 instructions.
- Q.20 Explain the SFRs associate with serial communication of 8051.
- Q.21 How many timers are associated with 8051. Explain the function of any one register.
- Q.22 Write short note on interrupts.

SECTION-D

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

- Q.23 Draw the architecture of 8051 and explain each block in detail.
- Q.24 Explain various criteria which needs to be considered for selection of Microcontroller.
- Q.25 Write short note on :
- Hex file generation using Keil compiler.
 - DAC interfacing