

.4 Which of the following is not an addressing mode of 8051?

- a) Register
- b) Register specific Instruction
- c) Indexed addressing
- d) Direct addressing

Q.5 A nibble has _____ bits.

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

Q.6 Stack pointer is a _____ bit register

- a) 4 b) 16
- c) 12 d) 8

SECTION-B

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

Q.7 Write the full form of PIC.

Q.8 Define Microcontroller.

Q.9 Define Interrupt.

Q.10 Internal RAM of 8051 is 128 bytes (T/F)

Q.11 Expand ALU.

Q.12 Expand RAM.

SECTION-C

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

Q.13 Explain RTOS in detail.

Q.14 Explain in brief different addressing modes used in 8051.

Q.15 Write a short note on data pointer and program counter.

Q.16 Explain embedded system with the help of an example.

Q.17 Write five applications of 8051 microcontroller.

Q.18 Explain Stack & stack pointer.

Q.19 Explain different type of interrupts used in 8051.

Q.20 Write a short note on embedded operating system.

Q.21 Explain data transfer instruction used in 8051 microcontroller.

Q.22 Write a short note on flag and PSW.