



- Q.4 8051 has \_\_\_\_\_ 16 bit up counters. (CO1)
- a) 1                                      b) 2  
c) 3                                      d) 4
- Q.5 On reset, the contents of Stack Pointer register are \_\_\_\_\_ (CO2)
- a) 05H                                      b) 06H  
c) 07H                                      d) 08H
- Q.6 8051 has internal RAM of \_\_\_\_\_ bytes. (CO1)
- a) 32                                      b) 64  
c) 128                                      d) 256

### SECTION-B

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

- Q.7 What is function of ALE? (CO1)
- Q.8 Write any one data transfer instruction. (CO2)
- Q.9 In how many modes, 8051 can operate? (CO3)
- Q.10 What is function of DPTR? (CO3)
- Q.11 Expand the term LCD. (CO5)
- Q.12 Define machine 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 How microcontroller is different from microprocessor? (CO1)
- Q.14 What is purpose of special function registers in 8051? (CO1)
- Q.15 What is function of PUSH & POP instructions? (CO1)
- Q.16 What is use of timer in 8051? (CO3)
- Q.17 Explain in brief SCON Special function register. (CO1)
- Q.18 What are different types of interrupts in 8051? (CO4)
- Q.19 Differentiate between half & full duplex transmission. (CO4)
- Q.20 How C Language is helpful for programming of 8051? (CO2)
- Q.21 Explain in brief the signal conditioning. (CO5)
- Q.22 What is RS 232 interface in microcontrollers? (CO5)

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