



- Q.5 \_\_\_\_\_ is used for fetching instructions from the memory
- a) Control unit                      b) Execution unit  
c) Memory unit                      d) ALU
- Q.6 Microcontroller often have
- a) CPU's                                b) RAM  
c) ROM                                  d) All of the above
- Q.7 Which of the following commands will copy the content of location 02 H to the accumulator
- a) MOVA, L2                          b) MOVA, 02 H  
c) MOVL2, A                          d) MOV 02H, A
- Q.8 The 8051 has \_\_\_\_\_ Pins
- a) 32                                      b) 36  
c) 40                                      d) 44
- Q.9 What does ISR Stands for?
- a) Interrupt service routine  
b) Interrupt software routine  
c) Invalid service routine  
d) Invalid standard routine
- Q.10 What the microcontroller executes some arithmetic operations, then the flag bit of which of following register are affected
- a) DPTR                                b) PC  
c) PSW                                  d) SP

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand PSW.
- Q.12 Write any two Data transfer instruction
- Q.13 Define opcode?
- Q.14 What is interrupt?
- Q.15 Define instruction?
- Q.16 What is microprocessor?
- Q.17 CPU stands for \_\_\_\_\_?
- Q.18 Write the full form of ROM.
- Q.19 Internal RAM of 8051 is \_\_\_\_\_
- Q.20 Define program counter?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 List the various application of advanced microcontroller in instrumentation and control field.
- Q.22 Write atleast five difference between microcontroller and microprocessor.
- Q.23 What are real times embedded system?
- Q.24 What are different portions of internal RAM?
- Q.25 What do you mean by addressing modes explain in brief.