



- Q.5 Radix of octal number system is \_\_\_\_\_. (CO1)
- a) 6                                      b) 8
- c) 16                                      d) 2
- Q.6 How many bits make a Nibble? (CO1)
- a) 4 Bits                                      b) 8 Bits
- c) 16 Bits                                      d) 2 Bits
- Q.7 The 2's complement of 0110101 binary is (CO1)
- a) 110001                                      b) 001001
- c) 1001011                                      d) 111001
- Q.8 The basic storage element in a digital system is \_\_\_\_\_. (CO7)
- a) Flip-Flop                                      b) Counter
- c) MUX                                      d) Encoder
- Q.9 How many bit program counter is available in 8085? (CO8)
- a) 8 Bit                                      b) 16 Bit
- c) 32 Bit                                      d) Both a and b
- Q.10 The highest priority interrupt in 8085 is \_\_\_\_\_. (CO9)
- a) TRAP                                      b) RST6.5
- c) INTR                                      d) RST7.5

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## SECTION-B

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

- Q.11  $1001+1100=$  \_\_\_\_\_. (CO1)
- Q.12 PIPO stands for \_\_\_\_\_. (CO6)
- Q.13 Define combinational circuit. (CO4)
- Q.14 Write full form of LCD. (CO8)
- Q.15 Draw the symbol of EX-OR gate. (CO2)
- Q.16 The number of digits in hexadecimal system. (CO1)
- Q.17 Define Minterm. (CO3)
- Q.18 EEPROM stands for \_\_\_\_\_. (CO8)
- Q.19 Define Encoder. (CO4)
- Q.20 Define ALU. (CO9)

## SECTION-C

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

- Q.21 Design and implement a half adder with neat diagram. (CO4)
- Q.22 What are different types of semiconductor memory. (CO8)
- Q.23 Write short note on D/A Converter. (CO7)
- Q.24 Compare 8-bit & 16-bit microprocessor. (CO9)
- Q.25 Differentiate between latch and flip flop. (CO5)
- Q.26 Convert  $(8.625)_{10}$  to binary. (CO1)
- Q.27 Write short note on 8:1 MUX. (CO4)

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