

- 10 The hexadecimal form of the binary number 11111010 is
- a. AF
 - b. EA
 - c. CD
 - d. FA

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(PART-B : Descriptive)

Time : 1 hr. 20 min.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Explain with the help of block diagram the computer architecture. 5

2. a. Design with the help of truth table 4:1 MUX. 5+5=10
b. What do you mean by Universal gate? Construct an OR gate using NAND gate only.

3. a. Find the binary equivalent of the decimal number 13.25. 3+3+4
=10
b. Convert $(11011.1011)_2$ into decimal.
c. Subtract $(11)_{10}$ from $(12)_{10}$ using 2's complement method.

4. a. What is Computer Language? Explain briefly. 4+6=10
b. Discuss the features, advantages and disadvantages of generation of computer.

5. Write short notes on the followings: 5+5=10
 - a. Demultiplexer
 - b. Computer software.

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