FORMATIVE ASSESSMENT - FIRST MID TERM

COMPUTER SCIENCE

Max. Marks: 25

Std - VIII

Time: 1½ Hrs

Name of the School:	**Name of the Student:**
Place:	**Roll No.:**

I. Choose the best answers: **5 x 1 = 5**

1. _____ data can be represented by a series of binary numbers.

    a. Digital   c. Hybrid

    b. Analog   d. None of these

2. The _____ number system contains eight symbols.

    a. Hexadecimal   c. Decimal

    b. Octal   d. Binary

3. MSB stands for _____.

    a. Most significant bit   c. Most sign bit

    b. Merit Significant bit   d. Most significant byte

4. Base _____ is used in the hexadecimal number system.

    a. 2   c. 16

    b. 8   d. 10

5. A collection of _____ bits is called a byte.

    a. 4   c. 16

    b. 8   d. 2

II. Answer any 3 of the following: Qn. No. 10 is compulsory: **3 x 2 = 6**

6. List out examples of Analog data.

7. What is a bit?

8. Define function in C.

9. What is a number system?

10. Convert the following hexadecimal number into binary numbers:

   i) $(F4)_{16}$ ii) $(CAB)_{16}$

III. **Answer any 3 of the following brief: Qn. No. 15 is compulsory:**   **3 x 3 = 9**

11. Add binary number: $(1011\ 001)_2 + (110011)_2$

12. Write down the need for function in C.

13. Write down the structure of a function declaration.

14. Convert the following decimal numbers into binary numbers: i) $(32)_{10}$ ii) $(65)_{10}$

15. Define: LSB and MSB

IV. **Answer the following detail: (Any 1)**   **1 x 5 = 5**

16. Convert the following:

   i) $(516)_{10} = (?)_2$ ii) $(516)_{10} = (?)_8$ iii) $(516)_{10} = (?)_{16}$

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(Or)

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17. Write a program in C to find if a given number is even or odd.