

**FORMATIVE ASSESSMENT - FIRST MID TERM****COMPUTER SCIENCE****Max. Marks: 25****Std - VIII****Time: 1 Hr**

<b>Name of the School:</b> <hr/>	<b>Name of the Student:</b> <hr/>
<b>Place:</b> <hr/>	<b>Roll No.:</b> <hr/>

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

1. MSB stands for \_\_\_\_\_.  
 a) most significant bit      b) merit significant bit  
 c) most sign bit      d) most significant byte
2. \_\_\_\_\_ data can be represented by a series of binary numbers.  
 a) Digital      b) Analog      c) Hybrid      d) None of these
3. The \_\_\_\_\_ number system contains eight symbols.  
 a) Hexadecimal      b) Octal      c) Decimal      d) Binary
4. A collection of \_\_\_\_\_ bits is called a byte.  
 a) 4      b) 8      c) 16      d) 2
5. Base \_\_\_\_\_ is used in the hexadecimal number system.  
 a) 2      b) 8      c) 16      d) 10

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

6. List out the various kinds of number system.
7. Define functions in C.
8. What is a bit?
9. List out examples of analog data.
10. Convert the following decimal number into binary numbers.  
 i)  $(32)_{10}$       ii)  $(65)_{10}$

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

11. How do you declare a function in C.
12. Write down the structure of a function declaration.
13. Add binary number:  $(1011001)_1 + (110011)_2$
14. Convert the following binary numbers into hexadecimal numbers.  
 i)  $(11010)_2$       ii)  $(111)_2$
15. Convert the following hexadecimal numbers into binary numbers.  
 i)  $(F4)_{16}$       ii)  $(CAB)_{16}$

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

**1 x 5 = 5**

16. Convert the following:

i)  $(516)_{10} = (?)_2$

ii)  $(516)_{10} = (?)_8$

iii)  $(516)_{10} = (?)_{16}$

(or)

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