SUMMATIVE ASSESSMENT - FIRST TERM

COMPUTER SCIENCE

Max. Marks: 50

Std - VIII **Time: 2 Hr**

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

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

1. The _____ number system contains eight symbols.

   a. hexadecimal b. octal c. decimal

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

   a. 4 b. 8 c. 16

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

   a. Digital b. Analog c. Hybrid

4. _____ is a console input/output header file.

   a. conio.h b. string.h c. assert.h

5. Functions help us in _____ code redundancy.

   a. increasing b. reducing c. deleting

II. Fill in the blanks: **5 x 1 = 5**

6. MSB stands for _____.
7. Base _____ is used in one hexadecimal number system.
8. Divide a large program into the basic building blocks known as _____.
9. _____ header file contains all the time-related functions.
10. _____ functions are used to perform some specific operations.

III. Match the following: **5 x 1 = 5**

11. conio.h - It contains all string-related library functions like gets( ), puts( )
12. math.h - This header file contains all time-related functions
13. studio.h - This is a console input/output header file.
14. time.h - This is a standard input/output header file.
15. string.h - This header file contains all the math operations.

IV. Solve the following: **4 x 2 = 8**

16. Convert the following binary numbers into hexadecimal numbers.

    i) $(11010)_2$ ii) $(111)_2$

17. Subtract binary numbers.

    $(1101)_2 — (1010)_2$

18. Convert the following decimal numbers into binary numbers.

    i) $(32)_{10}$ ii) $(65)_{10}$

19. Add binary numbers.

    $(1011001)_2 + (110011)_2$

V. Answer the following: (Any 5) **5 x 2 = 10**

20. Define variables in C.
21. What is a bit?
22. List out the various kinds of number systems.
23. What is a number system?
24. List out examples of the analog data.
25. Define functions in C.
26. Define LSB and MSB.

VI. Answer in detail: (Any 3) **3 x 4 = 12**

27. List and define the different number systems.
28. Explain the different types of variables in C.
29. Write down the structure of a function declaration.
30. Write a C Program to find the difference between two numbers.

VII. Write a given C program: (Any 1) **1 x 5 = 5**

31. Write a program in C to find if a given number is even or odd.
32. Write a program to calculate the average of five numbers.