



**SUMMATIVE ASSESSMENT - FIRST TERM**

**COMPUTER SCIENCE**

**Max. Marks: 50**

**Std - VIII**

**Time: 2 Hrs**

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

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

- 1. The \_\_\_\_\_ number system contains eight symbols.  
a) Hexadecimal      b) Octal      c) Decimal      d) Binary
- 2. MSB stands for \_\_\_\_\_.  
a) Most significant bit      b) Merit Significant bit  
c) Most sign bit      d) Most significant byte
- 3. Which of these is the correct name for a variable?  
a) int lvar      b) intmy\$var      c) char else;      d) int Count;
- 4. The static keyword is used to declare \_\_\_\_\_ type of variable.  
a) stat      b) static      c) keyword      d) ???
- 5. The statement “Every variable that gets declared inside a block is by default automatic in nature” is \_\_\_\_\_.  
a) True      b) False

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

- 6. To declare a constant, the \_\_\_\_\_ keyword is used.
- 7. Base \_\_\_\_\_ is used in the hexadecimal number system.
- 8. A collection of \_\_\_\_\_ bits is called a byte.
- 9. \_\_\_\_\_ data can be represented by a series of binary numbers.
- 10. The binary system has \_\_\_\_\_ digits.

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

- 11. stdio.h - This is a console input/output header file
- 12. conio.h - It contains all string related library functions like gets(), puts(), etc.,
- 13. stdlib.h - This header file contains all the math operation related function like sqrt(), pow() etc
- 14. string.h - This is a standard input/output header file. It contains all the library function regarding standard input/output
- 15. math.h - This header file contain all the library functions like malloc(), calloc()l exit(), etc.,

**IV. Answer the following: (Any 3)**

**3 x 2 = 6**

16. List out the various kinds of number system.
17. Define function in C.
18. How do you declare a function in C?
19. What is a bit?
20. What are constants?

**V. Solve of the following questions: (Any 2)**

**2 x 2½ = 5**

21. Convert the following hexadecimal number into binary numbers.
  - i)  $(F4)_{16}$
  - ii)  $(CAB)_{16}$
22. Add binary number:  $(1011\ 001)_2 + (110011)_2$
23. Subtract :  $(1101)_2 - (1010)_2$
24. Convert the following binary numbers into hexadecimal numbers:
  - i)  $(11010)_2$
  - ii)  $(111)_2$

**VI. Answer the following briefly: (Any 3):**

**3 x 3 = 9**

25. List out the examples of Analog data.
26. Write down the need for function in C.
27. What are the different types of variables in C?
28. Write down the structure of a function declaration.
29. Define External variables in C.

**VII. Answer the following detail:**

**3 x 5 = 15**

30. a) List and define the different number systems.

**(or)**

- b) Convert the following : i)  $(516)_{10} = (?)_2$  ii)  $(516)_{10} = (?)_8$  iii)  $(516)_{10} = (?)_{16}$

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

**(or)**

- b) Write down the important things to remember about functions in C.

32. a) Write a C program to calculate the average of two numbers.

**(or)**

- b) Write a C program to find the difference of two numbers.