

D 53672

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Information Technology

BIT 1B 01—PROBLEM SOLVING USING C

(2019—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Each correct answer carries a maximum of 2 marks.**Ceiling 20 Marks.*

1. List out the characteristics of a good programming language.
2. Explain the use of format specifiers in C.
3. Define the term 'type casting'.
4. Explain the use of printf() statement.
5. How a matrix can be declared in C ?
6. What is a Pointer ?
7. What are enumerated datatypes in C ?
8. Differentiate structure and union.
9. Mention the string function to compare two strings.
10. Differentiate compiler and interpreter.
11. What are Files ?
12. Define a) malloc ; and b) calloc.

Section B*Each question carries 5 marks.**Ceiling 30 marks*

13. Explain different storage classes in C with example.
14. Explain the various types of loop statement used in C language.

Turn over

15. Explain various bitwise operators in C.
16. What is the difference between function prototype and function definition ? Explain with an example.
17. Distinguish break and continue statements with the help of examples.
18. What is Recursion ? Write a program to find the factorial of a number using recursion ?
19. Write a C program to find the number of vowels in a string.

Section C

*Answer any **one** question.*

10 marks.

20. Discuss about various programming languages with its advantages and limitations.
21. Explain :
 - a) I/O operations on files ; and
 - b) Dynamic memory allocation.

(1 × 10 = 10 marks)