

C 4351

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2021

B.C.A.

BCA 2B 02—PROBLEM SOLVING USING C

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Answer at least eight questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. What are identifiers ? How to declare variables ?
2. What is the use of symbolic constant ?
3. Which statement used for skipping of loop in C ?
4. Explain else-if ladder with suitable example.
5. Discuss the limitations of using getchar() & scanf() functions for reading strings ?
6. Write a program to enter check whether the given number is divisible by 8.
7. Explain formatted output statements in C
8. What is the difference between "=" and "==" ? Explain.
9. Differentiate array and structure.
10. Explain the use of formal arguments. Explain.
11. How to open a data file in C ?
12. What is the purpose of calloc() function ? Explain.

(8 × 3 = 24 marks)

Section B (Short Essay Type Questions)*Answer at least five questions.**Each question carries 5 marks.**All questions can be attended.**Overall Ceiling 25.*

13. Explain the different types of Tokens in C with relevant program examples.
14. Arithmetic expressions, precedence of arithmetic operators and Type conversion in Expressions. Explain each with examples.

Turn over

15. When and why we use looping statements in C ? Write a program to find the average of positive numbers from a list of numbers using loop and continue statement.
16. What is a NULL character ? Why is it important ? Explain any three string handling functions in detail.
17. Write a program to find second largest and smallest element from a list of numbers without use an array.
18. Is it possible to pass structure variable to function ? Explain how to pass structure members as an argument ? With examples.
19. Write a C program to swap two numbers using call by value method.

(5 × 5 = 25 marks)

Section C (Essay Type Questions)

*Answer any one question.
The question carries 11 marks.*

20.
 - a) Explain different input and output statements used in C.
 - b) What is the difference between call by value and call by reference ? Explain with the help of an example. <https://www.keralaguru.com>
21.
 - a) Write a C program to multiply two matrices, use user defined functions and pass parameters.
 - b) What do you mean by scope of a variable ? What are local and global variables ? Give examples.

(1 × 11 = 11 marks)