D 12006 **(Pages : 2)** **Name.....**

Reg. No.....

THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2021

Computer Science

BCS 3C 03—PROBLEM SOLVING USING C

(2019—2020 Admissions)

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 is the purpose of getchar() and putchar() functions ?
2. Explain ternary operator.
3. What is a null pointer ?
4. What is the purpose of *continue* statement ?
5. What do you mean by call by reference ?
6. Explain strcmp() function in C.
7. What are integer literals ?
8. What do you mean by reserved keywords ? Give examples.
9. What is the use of goto statement ?
10. What do you mean by return type in a function ?
11. What do you mean by an identifier ?
12. What are enumerated data types ?

(8 × 3 = 24 marks)

Turn over

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 syntax of a function in C with an example.
14. Write a C program to find the largest and smallest number from an array.
15. Explain recursion in C with an example.
16. Explain *nested if* with syntax and example.
17. Explain logical operators in C.
18. Explain the concept of global variables with an example.
19. Write a C program to add 2 matrices.

(5 × 5 = 25 marks)

Section C (Essay Type Questions)

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

20. Discuss the methods of opening a data file.
21. Write a C program that reads several different names, addresses, age, qualification and rearranges the names into alphabetic order and then write out the list in the alphabetic order using structure within the program.

(1 × 11 = 11 marks)