C 43161 (Pages : 2) Name..

Reg. No.....................................

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION APRIL 2023

Computer Science

BCS 2B 02—PROBLEM SOLVING USING C

(2019—2022 Admissions)

Time : Two Hours Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer **all** *questions.*
Each correct answer carries a maximum of 2 marks.
Ceiling 20 *marks.*

1. Write down the rules for naming a variable in C ?

2. Write a note on integer types.

3. What are the different logical operators ?

4. What is a bitwise operator ?

5. What is dangling else problem ?

6. Write a note on simple for loop statement.

7. Write a note on automatic variables.

8. How is a structure defined ?

9. What is the difference between a structure and a union ?

10. How is a pointer variable declared and initialized ?

11. Explain chain of pointers.

12. What is a command line argument ?

(Ceiling 20 marks)

Turn over

Section B (Short Essay Type Questions)

Answer **all** *questions.*
Each correct answer carries a maximum of 5 marks.
Ceiling 30 *marks.*

13. Explain different data types in C with examples.

14. What are the rules of evaluation of an expression ?

15. Briefly explain operator precedence and associativity.

16. Write a C program to find the largest among three numbers.

17. Explain the working of a switch statement.

18. What are the different categories of a function ?

19. What are the storage classes in C. Explain with examples ?

(Ceiling 30 marks)

Section C (Essay Type Questions)

Answer any one *question.*
The correct answer carries 10 *marks.*

20. What are the different decision making statements in C ?

21. Write a program using pointers to read in an array of integers and print its elements in reverse.

$(1 \times 10 = 10$ marks)