C 4363 (Pages : 2) Name.....................................

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

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2021

Computer Science

BCS 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. Define Keywords and Identifiers.

2. What are the fundamental data types in c ?

3. Differentiate between implicit and explicit type conversions.

4. What are the different relational operators ?

5. Distinguish between *getchar()* and *scanf()* functions.

6. What is a conditional operator ? Give an example.

7. What is a multidimensional array ? How is it declared ?

8. How is a string variable declared and initialized.

9. Explain the basic concept of pointers.

10. Describe nesting of loops.

11. Explain the use of *ftell* and *fseek* functions.

12. What is function recursion ?

(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. What is a Constant ? What are the different types of constants in C. Give examples ?

14. Explain different kinds of operators in C with examples.

15. Write a C program to compute the sum of digits of a number.

16. Explain any five string handling functions with examples.

17. What are a structure and a union ? How are they different ?

18. Explain about looping statements in C.

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

$$(5 \times 5 = 25 \text{ marks})$$

Section C (Essay Type Questions)

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

20. What are the categories of functions ? Explain with examples.

21. Write a C program to read a text and count the occurrence of a particular word.

$$(1 \times 11 = 11 \text{ marks})$$