C 22064 (Pages : 2) Name..................................

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

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022

Computer Science

BCS 2B 02—PROBLEM SOLVING USING C

(2021 Admissions)

Time : Two Hours Maximum : 60 Marks

Section A

Answer at least **eight** *questions.*
Each question carries 3 *marks.*
All questions can be attended.
Overall Ceiling 24.

1. What is a string constant ?
2. List the categories of characters in C ?
3. Write a note on explicit type conversion.
4. What is a ternary operator ?
5. Write a short note on *goto* statement.
6. What is a *sizeof* operator ?
7. What is the purpose of *scanf()* function ?
8. How is pointers to function declared ?
9. What are the elements of a user-defined function ?
10. How is a two dimensional array declared ?
11. What is nesting of structures ?
12. Write a note on *putw()* and *getw()* functions.

(8 × 3 = 24 marks)

Turn over

Section B

Answer at least **five** *questions.*

Each question carries 5 *marks.*

All questions can be attended.

Overall Ceiling 25.

13. Write about storage classes in C.

14. Explain increment and decrement operators in C.

15. Write a program to determine whether a given number is ‘odd’ or ‘even’.

16. Explain the two different stages of initialization of a one dimensional array.

17. Explain any *four* string handling functions.

18. What is a pointer ? State the benefits of using a pointer ?

19. Explain pointers as function arguments.

(5 × 5 = 25 marks)

Section C

Answer any **one** *question.*

The question carries 11 *marks.*

20. What are the different looping structures in C ?

21. Write a C program to reverse a string without using *strrev()* function.

(1 × 11 = 11 marks)