

C 23852

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Computer Science

BCS 2B 02—PROBLEM SOLVING USING C

(2019—2020 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. What is a pointer ?
2. What are the functions to write to a text file ?
3. What are integer literals ?
4. What is dynamic memory allocation ?
5. Write down the syntax of for loop.
6. With an example, illustrate the use of ternary operator.
7. What is the purpose of continue statement ?
8. How does a structure differ from an array ?
9. What is the use of #define statement ?
10. What do you mean by base address of an array ? What is the starting base address ?
11. Explain assignment operators in C.
12. What is the importance of the file opening mode "w+" ?

(20 marks)

Section B (Short Essay Type Questions)*Answer all questions, each correct answer carries a maximum of 5 marks. Ceiling 30 marks.*

13. Explain with an example, how will you access union members.
14. Using recursion, write a program to find factorial of a number.

Turn over

15. Differentiate the use of local variables and global variables with example programs.
16. Explain with an example, how will you pass pointers to functions in C ?
17. Explain various data types in C.
18. Write a C program to find first N Fibonacci numbers.
19. Explain the use of break statement with an example.

(30 marks)

Section C (Essay Type Questions)

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

20. Write a C program to sort N numbers using pointers.
21. Write a C program to multiply two matrices.

(1 × 10 = 10 marks)