

D 92926

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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2020**

Computer Science

BCS 3C 03—PROBLEM SOLVING USING C

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 are formal parameters ?
2. Write the syntax of “switch” statement.
3. Explain a nested for loop.
4. Name the various storage class specifiers.
5. What is a header file ?
6. Which are the different integer types in C ?
7. Differentiate ‘a’ and ‘a+’ modes for appending.
8. Explain conditional operator in C.
9. What is extern in C ?
10. What do you mean by local variables ?
11. How will you initialize one dimensional and two dimensional arrays in C ?
12. What is the purpose of strlen() and strcmp() ?

(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 a C program to find whether a given number is odd or even. If even, print its square root.
14. Explain function prototype with an example program and its use.
15. What is a union ? How can it be declared ?
16. Explain with syntax and examples, the use of fprintf().
17. Differentiate the use of break and continue statements with examples.
18. Explain *if* and *if-else* in C with syntax and example.
19. Explain relational operators in C.

(5 × 5 = 25 marks)

Section C

Answer any one question.

The question carries 11 marks.

20. Write a C program to multiply two matrices.
21. Explain the dynamic memory allocation functions malloc() and realloc() with example.

(1 × 11 = 11 marks)