D 92926

(Pages : 2)

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)