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Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE (SUPPLEMENTARY) EXAMINATION NOVEMBER 2020

(CUCSS)

Computer Science

CSS 1C 04-THE ART OF PROGRAMMING METHODOLOGY

(2014 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A

Answer **all** questions.

Each question carries 1 weightage.

1. What is a flow chart ?

2. What is top-down design ?

3. Differentiate between syntax error and run-time errors in a program.

4. What are the fundamental data types in C ?

5. What are conditional operators ?

- 6. Explain the syntax and function in of if.else construct in C
- 7. Explain the use of *switch* statement it in C.
- 8. How will you by pass certain statements in a loop construct in C?
- 9. What are the different types of functions in C?
- 10. Explain Array of Structure,
- 11. What is the use of realloc() functions in C?
- 12. What are command line arguments.

Section B

 $(12 \times 1 = 12 \text{ weightage})$

Answer any **six** questions. Each question carries 2 weightage.

- 13. Explain the different characteristics of an algorithm.
- 14. Explain any four I/O functions in C?

Turn over

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15. Explain any four string handling functions in C.

16. Give an account on storage classes in C.

17. Explain how you will declare a pointer to a function with suitable example.

18. Write a C program to find the trace (sum of all diagonal elements) of a matrix.

19. Illustrate the memory allocation of structure and union in C with example.

20. What is FILE data structure ? Explain the different file access modes supported in C.

21. Write a short note on pre-processor directives.

 $(6 \times 2 = 12 \text{ weightage})$

Section C

Answer any **three** questions. Each question carries 4 weightage.

22. Explain the syntax and functions of standard I/O functions in C with examples.

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23. Explain the different loop construct available in C with suitable examples.

24. Explain the differences between call-by-value and call-by-reference with suitable examples.

25. Write a C program to multiply two suitable matrices.

26. Explain Array of Structure with suitable examples.

27. Define a macro with one parameter to compute the volume of a sphere. Write program using this macro to compute the volume for spheres of radius 5, 10 and 15 meters.

 $(3 \times 4 = 12 \text{ weightage})$

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