22P162

Name: ....

Reg.No: ....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P CSS1 C04 - THE ART OF PROGRAMMING METHODOLOGY

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

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

1. Define flowchart. Explain different flowchart symbols.

2. Write difference between keywords and identifiers.

3. Explain the working of goto statement with an example.

4. Explain any four String Manipulation Functions.

5. Give a brief description of static storage class used in C.

6. Define union. How union is declared and initialized ?

7. Briefly discuss the use of pointers.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Discuss the advantages and disadvantages of modular programming.

9. Explain the characteristics of a good program.

10. Explain the basic structure of C programming with neat diagram.

11. What are the tokens used in C? Explain with example.

12. Eplain operator precedence and associativity in C?

13. How file handling is done in C? Explain various functions used for opening, closing and processing a file in 'C' language.

14. Explain macro? Explain different types of macros with suitable examples.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Explain different looping statements in C with suitable example.

16. How are array processed in C? Illustrate by taking 2 dimensional array as example. Write a program to sort a set of integers in ascending order.

17. What is a Function? Give its types and write as program to show the use of recursion.

18. Explain dynamic memory allocation. Explain different memory allocation functions.

(2 × 5 = 10 Weightage)

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