24P161 (Pages: 2) Name: ....

Reg.No: ....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(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. What is a Flowchart? What are its applications? Make a flowchart of nested if statement.

2. Write steps for executing a 'C' program.

3. What is a variable? Give naming rules of a variable.Use some assignment statements.

4. Define static and dynamic arrays.

5. Briefly discuss the elements of user defined functions.

6. Define structure. How structures are declared and initialized?

7. What are command line arguments?

(4 × 2 = 8 Weightage)

Part-B

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

8. Write down the advantages and disadvantages of modular programming.

9. Explain the characteristics of a good program.

10. Briefly discuss the evaluation of expression in C with suitable example.

11. What is operator precedence and associativity in C?

12. Differentiate goto and continue statement with suitable example.

13. Explain the various storage classes used in C with example.

14. Explain the working of pointers as function arguments with suitable example.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain the following a) If statement b) Switch c) Break d) Continue with suitable examples

16. a) Define string variable. How strings are declared and initialised?

    b) Explain the various string handling functions in C.

17. What is dynamic memory allocation? Explain different memory allocation functions.

18. Discuss a) Preprocessor b) Types of macros with suitable examples

(2 × 5 = 10 Weightage)

****