

21P165

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Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(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. State and explain different types of errors in programming.
2. What is meant by constants in C?
3. Write down the working of goto statement with an example.
4. Discuss the different jumping statements in C.
5. What is the difference between a static and auto variable?
6. Define union. How union is declared and initialized ?
7. What is a macro? Explain with an example.

(4 × 2 = 8 Weightage)

Part-B

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

8. Define flowchart.Explain different flowchart symbols.
9. Discuss the advantages and disadvantages of modular programming.
10. Discuss the basic structure of C programming with neat diagram.
11. Briefly discuss the evaluation of expression in C with suitable example.
12. What is operator precedence and associativity in C?
13. Briefly discuss the concept of array of pointers with suitable example.
14. Briefly explain files in C. Write a program to copy a file into another file.

(4 × 3 = 12 Weightage)

Part-C

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

15. (a) How are array processed in C? Illustrate by taking 2 dimensional array as example.
(b) Write a program to sort a set of integers in ascending order.
16. Define string variable.How strings are declared and initialised? Explain the various string handling functions in C.
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)
