

17P166

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Name:.....

Reg.No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017
(CUCSS-PG)
CC17P CSS1 C04 - THE ART OF PROGRAMMING METHODOLOGY
(Computer Science)
(2017 Admission Regular)

Time: Three Hours

Maximum: 36 Weightage

Part A

Answer all questions. Each question carries 1 weightage.

1. Explain conditional operator with example.
2. Differentiate between extern and static storage.
3. What is the significance of EOF?
4. Are *p++ and (*p)++ same? Justify your answer.
5. Explain the role of C pre-processor.
6. Differentiate between compiler and interpreter.
7. Define command line argument?
8. Explain multidimensional arrays.
9. Write any four string functions.
10. What is the difference between scope and visibility of variable.
11. Compare structure and union.
12. Discuss the use of continue statement. **(12×1=12 Weightage)**

Part B

Answer any six questions. Each question carries 2 weightage.

13. What are the rules to be followed while drawing flowchart.
14. Define pointer. Explain its benefit.
15. Give examples for arrays of structures and arrays within structures.
16. Compare variable and constant. What are the rules for declaring a variable?
17. Explain error handling during file I/O operation.

18. Differentiate while and do-while with suitable example.
19. Write a nested macro that gives the minimum of three values.
20. Write a program to find Sum of the given Series $1/1! + 2/2! + 3/3! + \dots + 1/n!$. The value of n should be entered interactively through the terminal.
21. Discuss recursion and nesting of functions with suitable example.

(6×2=12 Weightage)

Part C

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

22. Explain top-down design approach.
23. What is dynamic memory allocation? Explain different memory allocation functions in C.
24. Write a short note about different relational, logical and assignment operators in c.
25. Write a program to find product of two matrices.
26. i) Discuss if and switch statements with example
ii) Write a program to sort set of given numbers with any sort algorithm.
27. Explain different category of user defined functions.

(3×4=12 Weightage)

Part B