D 93004 (Pages : 2) Name

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

Computer Science

CSS 1C 04 – THE ART OF PROGRAMMING METHODOLOGY

(2014 Admission onwards)

Time : Three Hours Maximum : 36 Weightage

Part A

Answer **all** *questions.*

Each question carries 1 ***weightage.***

1. *What* are the two categories of flowchart ?
2. Differentiate between compiler and interpreter.
3. Describe the base structure of a C program.
4. What are the qualifiers that an *int* can have at a time ?
5. Mention the decision making and branching statements in C.
6. Write any *two* string manipulation function and explain.
7. Explain multidimensional array.
8. What are actual and formal arguments.
9. Differentiate between structure and union.
10. Name the storage classes in C.
11. What is the significance of EOF ?
12. Explain command line arguments.

(12 x 1 = 12 weightage)

Part B

Answer any **six** *questions.*

Each question carries **2** ***weightage.***

13. Explain to-down design approach.
14. Draw the flowchart to find the largest of *n* numbers.
15. Explain any *two* user defined data types in C.

Turn over

16. **Explain conditional operator. Write a program to find the largest of 3 numbers using conditional operator.**
17. **Explain *goto* statement.**
18. **Write a program to print first 100 prime numbers.**
19. **What is a structure in C ? How structure is declared ?**
20. **Explain error handing during File 110 operation.**
21. **Write a nested macro that gives the minimum of three values.**

(6 x 2 = 12 weightage)

Part C

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

22. **Explain the standard symbols used in the flowchart with neat diagrams.**
23. **Explain different relational, logical and assignment operators in C.**
24. **Explain switch-case statement with example.**
25. **Write a C program to demonstrate recursion. Explain the working with test data.**
26. **Explain different category of user detained functions.**
27. **Write a program that reads a file containing integers and appends at its end the sum of all the integers.**

(3 x 4 = 12 weightage)