Reg. No…….……. Name…….…… **18U119**

B. Sc. DEGREE END SEMESTER EXAMINATION OCTOBER / NOVEMBER 2018

SEMESTER – 1 : COMPUTER APPLICATIONS (CORE COURSE)

COURSE: 15U1CRCAP2 – PROGRAMMING IN 'C'

(For Regular - 2018 Admission and Improvement 2017/ Supplementary 2017, 2016, 2015 admissions)

Time : Three Hours Max. Marks: 75

PART A

Answer **all** questions in one sentence each. Each question carries **1** mark.

1. Define pseudo code.
2. What is Modular programming?
3. What are escape sequences?
4. What is the purpose of sizeof() operator?
5. Define string.
6. What is the limitation of using scanf() in reading strings?
7. Define scope of a variable.
8. What is function?
9. What is the significance of EOF?
10. What are file modes?

(1 x 10 = 10)

PART B

Answer any **eight** questions in one or two sentences. Each question carries **2** marks

11. Write an algorithm to display the reverse of a given number.
12. What are benefits of bottom up approach?
13. Briefly explain increment/decrement operators.
14. List the rules for naming an identifier.
15. Distinguish between break and continue statements.
16. Briefly explain arrays.
17. What are typedef statements?
18. What is function prototype?
19. List any two typical applications of pointers.
20. What are command-line arguments?

(2 x 8 = 16)

PART C

Answer any **five** questions. Each carries **5** marks

21. Describe the features of a good program.
22. Explain different type conversions in expressions.

23. Write a C program to print the transpose of a 3X3 matrix.
24. Compare if..elseif…else statement with switch statement.
25. Explain the difference between call by value and call by reference method of parameter passing using suitable examples.
26. Explain recursion .Write a program to find factorial of a number using recursion.
27. Briefly explain the functions used for opening and closing files.

(5 x 5 = 25)

PART D

Answer any **two** Questions. Each carries **12** marks

28. Write a short note on the following:-
    a) Flowcharts (6)
    b) Modular programming (6)
29. Explain looping statements in C with example for each.
30. Explain the following:-
    a) Storage Classes (8)
    b) Union (4)
31. a) Briefly explain the arithmetic operations on pointers (4)
    b) Explain the concept of pointers to structures with an example program. (8)

(12 x 2 = 24)

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