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**SAINTGITS COLLEGE OF APPLIED SCIENCES**

**SECOND INTERNAL ASSESSMENT EXAMINATION, OCTOBER 2019**

**Department of BCA, Semester I**

Methodology of programming and C Language

Total : **80 marks** Time:**3Hours**

**Section A**

*Answer any 10 questions. Each question carries 2 marks.*

1. Explain the advantages of C?

2. Define arrays and pointers in C?

3. Explain recursion vs iteration?

4. What is meant by compiler and interpreter?

5. Explain formatted functions in C?

6. Explain conditional operators in C?

7. Write a program to find factorial of a number using recursion?

8. Define recursion and typedef datatypes in C?

9. write the algorithm and draw the flowchart to find the smallest of two numbers?

10. Define malloc () and calloc () in C?

11.Difference between break and exit statement in C?

12. Difference between structure and union in C?

**(10 X 2 = 20 marks)**

**Section B**

*Answer any 6 questions. Each question carries 5 marks.*

13. Explain data types in C?

14. Explain strcmp() ,strdup() ,strlwr() ,strstr() ,strpbrk() in C?

15. Explain array of structure in C?

16. Explain merging operation in one dimensional array?

17. Explain array of pointers in C?

18. Explain program translators in C?

19. Define functions and Explain different parts of functions in C with example?

20. Explain any two types of user-defined function?

21. Explain call by value and call by reference in C? **(6 X 5 = 30marks)**

**Section C**

*Answer any 2 questions. It carries 15marks.*

22. Explain storage classes in C?

23. Explain control structures in C?

24. Explain insertion and deletion operations in two dimensional arrays?

25. Explain tokens in C?

**(2 X 15 = 30 marks)**

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