LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc., DEGREE EXAMINATION – **COMPUTER SCI. & COMPUTER APP.**

FIRST SEMESTER – NOVEMBER 2012

# CS 1501/CA 1501/CS1500 – PROGRAMMING IN C

 Date : 08/11/2012 Dept. No. Max. : 100 Marks

 Time : 1.00 – 4.00

**PART – A**

**Answer ALL the questions: 10 x 2 = 20 marks**

1. **Define Identifiers.**

**2. Write the use of conditional operator to form conditional expressions.**

1. **What is the purpose of ‘putchar’ functions?**
2. **What is the use of break statement?**
3. **Define Recursion.**
4. **What is an external variable?**
5. **Define pointers.**
6. **What is a structure?**
7. **Write the primary advantage of using a data file.**
8. **What is a stream pointer?**

**PART – B**

**Answer ALL the questions: 5 x 8 = 40 marks**

 **11. a) Draw a flowchart to display the largest of three numbers.**

 **(OR)**

 **b) Write notes on the data types available in C.**

 **12. a) Explain about Input and output functions in C.**

 **(OR)**

**b) How does a while statement differ from do while statement? Explain with an example.**

 **13. a) Describe the different storage classes available in C**

 **(OR)**

 **b) How arrays are passed as argument to a function? Give example.**

 **14. a) With an example explain about the passing pointers to functions.**

 **(OR)**

 **b) Explain about the self referential structures.**

 **15. a) Explain how to open and close a data file in C.**

 **(OR)**

 **b) Write any two input operations used in files.**

**PART – C**

**Answer any TWO questions 2 x 20 = 40 marks**

 **16. a) Explain the various operators in C with example.**

 **b) Write a C program to find the biggest of three numbers.**

 **17. a) Discuss in detail about the various looping statements in C.**

**b) Write a recursive C program to calculate the factorial of a given number.**

 **18. a) Describe the File I/O function and their descriptions.**

**b) Write a C program to swap the values using pointers.**

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