LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034

B.Sc. DEGREE EXAMINATION – STATISTICS

FIFTH SEMESTER – NOVEMBER 2009

ST 5401 - C & C ++

Date & Time: 14/11/2009 / 9:00 - 12:00 Dept. No.

SECTION A

Answer all questions.

- 1. Mention the different divisions of a C program.
- 2. What is the difference between float and double data type?
- 3. What will be the value of a<<1, if a=20?
- 4. What is meant by nested loop?
- 5. Write a C program to accept an integer and display whether it is odd or even.
- 6. Mention four operators available in C++ that are not available in C.
- 7. Mention the difference between local and global variable.
- 8. Define an object with reference to C++ language.
- 9. Write a C++ program to find the area of a rectangle.
- 10. What is meant by polymorphism?

SECTION B

Answer any FIVE questions.

Answer any TWO questions

- 11. Explain the arithmetic, relational and logical operators available in C language.
- 12. Explain the syntax of if else and if else if statement with an example each.
- 13. Write a C program to accept a character and display whether it is a vowel or a consonant.
- 14. Explain the concept of one and two dimensional arrays.
- 15. What are structures? Explain the syntax of creating a structure in C language.
- 16. Write a C++ program to find the roots of a quadratic equation.
- 17. Explain the concept of friend function with an example.
- 18. Write a C++ program to find the mean and variance of 'n' integers.

SECTION C

Answer any 1 wo questions.	(2720-40)
19. a.) Explain the syntax of switch – case statement with an example.	
b.) Write a C program to display the maximum of three integers.	(10+10)
20. a.) Write a C program to find the sum of two square matrices of order n x	n each.
b.) Explain the concept of jumping and looping with an example each.	(10+10)
21. a.) Explain the salient features of object oriented programming.	
b.) Explain the public, private and protected access specifiers available in	
C++ language.	(10+10)
22. What is meant by inheritance? Explain the different types of inheritance w	vith an example
each.	

Max.: 100 Marks

(5x8=40)

(2v20-40)

(10x2=20)