

Register Number :

Name of the Candidate :

**5 2 4 7**

**B.Sc. DEGREE EXAMINATION, 2012**

**(MATHEMATICS)**

**(FIRST YEAR)**

**(PART - III)**

**(GROUP - B : ANCILLARY)**

**( PAPER - II )**

**541. PROGRAMMING IN C AND C++**

*( Candidates joined during 2010-11)*

May ]

[ Time : 3 Hours

Maximum : 75 Marks

*Answer any FIVE questions.*

*ALL questions carry equal marks.*

1. (a) Explain the types of functions used in C.
- (b) Explain bitwise operators in C.

**Turn Over**

2. (a) Write a C program to arrange the given  $n$  numbers in descending order.
- (b) What is called name equivalent structure? How do you perform the computation in nested structure? Explain
3. (a) Discuss the basic concepts of Object Oriented Programming.
- (b) Discuss the control structures in C++.
4. (a) What is function overloading? Illustrate with a program.
- (b) How do structures in C and C++ differ?
5. (a) Write short notes on:
  - (i) Copy constructor
  - (ii) Dynamic constructor.
- (b) Why operators are overload? Write an example program that overloads ++ operator.
6. (a) Explain friend function with a program.
- (b) Discuss the type conversion.

7. (a) Explain multiple inheritance and hybrid inheritance with example.
- (b) Discuss about 'THIS' pointer and pointers to derived classes.
8. (a) Explain the Random access file. Processing in C++ with example.
- (b) Write short notes on:
  - (i) File pointers.
  - (ii) Updating a file.