

(i) Printed Pages : 2 Roll No.

(ii) Questions : 9 Sub. Code :

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Exam. Code :

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B.A./B.Sc. 3rd Semester

INFORMATION TECHNOLOGY

Paper-A : Computer Programming Using C++

Time Allowed : Three Hours] [Maximum Marks : 65

Note : Attempt five questions in all. Select one question each from Sections A to D. Section E (Question No. 9) is compulsory. Each question is of 13 marks.

SECTION-A

1. What do you mean by Inheritance ? Explain different types of inheritance. Also, discuss the concept of polymorphism with suitable examples. 13

2. Describe features of C++. With help of a diagram explain the structure of a C++ Program. 13

SECTION-B

3. What is Copy Constructor ? Write a Program in C++ to illustrate the concept of copy constructor. 13

4. Write a Program in C++ to illustrate the difference between pass by value and pass by reference. 13

SECTION-C

5. What is Inheritance ? Write a Program in C++ to illustrate the concept of public, private and protected inheritance. 13
6. How can you declare and define overloaded functions ? Explain with a suitable Program in C++. 13

SECTION-D

7. What do you mean by Stack ? Write an algorithm for pop and push Operations on stacks in C++. 13
8. What do you mean by Sorting ? Explain any two types of sorting algorithms with examples. 13

SECTION-E (Compulsory Question)

9. Write short notes on the following :
- (a) Queue 3
 - (b) Multilevel Inheritance 2
 - (c) Pointers to Objects 2
 - (d) I/O Streams 2
 - (e) Destructor 2
 - (f) Encapsulation. 2