

MAY 2013

P/ID 17506/PCASF

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Explain OOPS concepts.
2. Discuss :
 - (a) Array
 - (b) Dynamic memory allocation.
3. Explain operator overloading with example.
4. Define Inheritance and explain its types.
5. Explain class template.
6. Explain exception handling in C++.
7. Explain File I/O with example.
8. Write short notes on standard template library.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain constructors and destructors with example.
10. Explain the following :
 - (a) Inline function with example
 - (b) Static members.

11. Explain :
 - (a) **this** pointer with example
 - (b) pointer to function.
12. Explain :
 - (a) friend function
 - (b) operator overloading.
13. What is meant by virtual function? Explain pure virtual function with example.
14. Explain :
 - (a) function templates and generic function
 - (b) overloading function templates with example.
15. Write a C++ program to handle a divide by zero exception.
16. Explain about string operations in C++ with example.
17. Discuss briefly on C++ streams.
18. Write a C++ program to append a file.