



C09-IT-404

3498

BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2014
DIT—FOURTH SEMESTER EXAMINATION
OOP THROUGH C++

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define data hiding.
2. List the features of inline function.
3. Write the characteristics of constructors.
4. Define friend function.
5. Define reference. How is a reference variable declared?
6. State any three benefits of inheritance.
7. What is inheritance?

- * 8. State the need for virtual classes.
9. What are the differences between sequential and random access files?
10. What is a template? List the types of templates in C++.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Write a C++ program on binary operator overloading using friend function.
12. (a) Explain the structure of C++ program with an example.
(b) Explain the steps in developing a C++ program.
13. Explain the concept of returning objects from function with an example.
14. Explain how to access member functions using array of objects with an example program.
15. Explain virtual function concept with a small program.
16. Write a C++ program to illustrate multiple inheritance.
- * 17. Explain any five I/O manipulators with examples.
18. Explain a class template for stack data structures.
