+C09–IT–404

3498

BOARD DIPLOMA EXAMINATION, (C–09)
OCT/NOV—2013
DIT—FOURTH SEMESTER EXAMINATION

OOP THROUGH C++

Time : 3 hours]　　　　　　　　　　　　　　　[*Total Marks* : 80

PART—A

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 friend function.

2. Compare classes in C++ with structures in C.

3. Write any four features of OOPs.

4. List the characteristics of constructors.

5. Define a pointer with syntax.

6. What are the differences between the accesses specifiers private and protected?

7. State the relationship between base class and derived class.

8. State any three benefits of inheritance.

9. List any four I/O manipulators with examples.

10. Define class template.

PART—B

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. Explain the concept of returning objects from function with an example.

12. *(a)* Explain the structure of C++ program with an example program.

(b) Explain the steps in developing a C++ program.

13. Explain how you will overload unary and binary operators with the help of a program.

14. Explain the concept of reference with an example program.

15. Explain the concept of multilevel inheritance with a small program.

16. Explain virtual function concept with a small program.

17. Write a C++ program to read text from one file and copy it to another file.

18. Explain multiple arguments function templates with an example program.

★ ★ ★