



C09-CM-404/C09-IT-404

3461

**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2015
DCM—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) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Write the characteristics of friend function.
2. Define constructor. Write its syntax.
3. List the operators that cannot be overloaded in C++.
4. Define pass by reference method.
5. Define memory management operators.
6. State any three benefits of inheritance.
7. What is inheritance?

- * 8. State the need for virtual functions in C++.
9. What are the differences between sequential and random access files?
10. What is a class template and how is it declared?

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. What is an in-line function? Explain with an example program.
12. List and explain the properties of OOP.
13. List and explain about friend function used in C++ with examples.
14. Explain how to access member functions using array of objects with an example program.
15. Write a C++ program to illustrate multiple inheritance.
16. Explain the concept of multilevel inheritance with a small program.
17. Describe the hierarchy of stream classes in C++.
- * 18. Explain templates with single argument types with an example program.
