



C09-CM-404/C09-IT-404

3461

BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2016
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. List the advantages of inline functions.
2. Define pass by reference method.
3. Define data hiding.
4. Define destructor. Write its syntax.
5. Define reference. How is a reference variable declared?
6. Define virtual base class.
7. What is the need for inheritance?

- * 8. Define abstract class with syntax.
- 9. What is the custom/user-defined manipulators?
- 10. What is generic programming?

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 unary operator overloading.
- 12. (a) Explain the structure of C++ program with an example.
(b) Explain the steps in developing a C++ program.
- 13. What is friend function? Explain with an example program.
- 14. Explain the creating and accessing of array of objects with an example program.
- 15. Explain virtual function concept with a small program.
- 16. List and explain various forms of inheritance supported by C++ with examples.
- 17. (a) What are file modes? Describe various file mode options available.
(b) Explain about file I/O functions.
- 18. Explain a class template for stack data structures.
