



C09-IT-404

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

1. Write about the evolution of object-oriented programming language.
2. Define inline functions.
3. Define polymorphism and list their types.
4. What is comment in C++? How can we represent comments in C++?
5. Define memory management operators.
6. What are virtual functions? Write its applications.
7. What is the necessity for inheritance?

- * 8. What are the differences between inheriting a class with public and private visibility mode?
- 9. What are the differences between sequential and random access files?
- 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. Explain constructor and destructor using an example program.
- 12. Write a C++ program to illustrate friend function.
- 13. Explain the concept of returning objects from function with an example.
- 14. Explain the creating and accessing of array of objects with an example program.
- 15. Explain the use of inheritance with an example program.
- 16. Write a C++ program on hierarchical inheritance.
- * 17. Explain any five I/O manipulators with examples.
- 18. Explain a class template for stack data structures.
