



C09-IT-404

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**BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2013
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. What is operator overloading?
2. Explain the evolution of C++ in brief.
3. List the advantages of inline functions.
4. Define friend function.
5. Define dynamic memory management operators.
6. Give any three rules for virtual functions.
7. What is the need of inheritance?

8. What are the different inheritance visibility modes supported by C++?
9. What are the binary I/O functions?
10. State the need of templates.

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 the constructor and destructor using example program.
12. (a) Explain the structure of C++ program with an example program.
(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. 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 creating of classes based on templates.

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