C09–CM–404

3461

BOARD DIPLOMA EXAMINATION, (C–09)
MARCH/APRIL—2014
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) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. What is a constructor? List the types of constructors.

2. Define object. How is an object created in C++?

3. Define data hiding.

4. Define friend function.

5. State the usage of pointer.

6. What is visibility mode?

7. What is the need for inheritence?

8. Define virtual class.

9. What is predefined console stream?

10. What is function template?

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 passing objects by value to a function with an example program.

12. How will you overload unary and binary operators using friend functions? Explain with a program.

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

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

14. Write a C++ program using dynamic memory allocation operators New and Delete.

15. Write a C++ program to illustrate multiple inheritance.

16. Explain virtual function concept with a small program.

17. *(a)* What are file modes? Describe various file mode options available.

(b) Explain about file I/O functions.

18. Explain the creating of classes based on templates.

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