C09–CM–404/C09–IT–**404**

3461

BOARD DIPLOMA EXAMINATION, (C–09)
OCT/NOV—2017
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 about the evolution of object-oriented programming language.

2. Define a class with syntax.

3. Define CONST keyword with syntax.

4. Define friend function.

5. Define reference. How is a reference variable declared?

6. State the need for virtual classes.

7. What is a virtual function? Give its syntax.

8. What is the need for inheritance?

9. Define a file pointer.

10. Differentiate function overloading with 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. Write a program for unary operator overloading.

12. Explain constructor and destructor using an example program.

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

14. Explain how to access member functions using array of objects with an example program.

15. Explain three types of access control with an examples.

16. Explain the different forms of inheritance supported by C++ with an example.

17. Describe the hierarchy of stream classes in C++.

18. Explain a class template for stack data structures.

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