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C14–CM–405/C14–IT–405

4453

BOARD DIPLOMA EXAMINATION, (C–14)

MARCH/APRIL—2017

DCME—FOURTH SEMESTER EXAMINATION

OOPS 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. Define encapsulation.

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

3. What is function overloading?

4. List the features of inline functions.

5. How to declare pointer to object in C++?

6. List any three benefits of inheritance.

7. Write any three rules for virtual functions.

8. What is the need for virtual functions in C++?

9. What are manipulators? List any three manipulators.

10. What is 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. Write a C++ program on binary operator overloading.

12. Explain the properties of OOP.

13. Explain the concept of returning objects from function with an example.

14. Explain about reference with the help of a program.

15. Write a C++ program on multilevel inheritance.

16. Write a C++ program to illustrate virtual base class in multipath inheritance.

17. *(a)* Explain the binary I/O functions get( ) and put( ). 6

(b) Write the format of file I/O functions open( ) and read( ). 4

18. Explain multiple arguments function template with an example program.

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