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C14-CM-405/
C14-IT-405

4453

**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
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 class and object.
2. List any three advantages of OOPs.
3. What is Friend Function?
4. Differentiate between normal function and member function.
5. What is use of 'this' pointer?
6. What is Inheritance? What are different types of inheritance?
7. Define a virtual base class.
8. List the three keywords for access control in C++
9. What is user defined manipulator?
10. What is function template? How is it declared?

- * **Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain constructor and Destructor using an example program.
12. Explain the concept of Returning Objects from function with an example.
13. Write a C++ program on Binary operator overloading.
14. Explain how to access member functions using Array of objects with an example program.
15. Explain the Format/Syntax for defining a Derived class with an example program.
16. Explain the Accessibility of base class members in inheritance with an example program.
17. Explain the following I/O Functions :
 - (a) OPEN ()
 - (b) READO ()
 - (c) WRITE ()
 - (d) CLOSE ()
18. Explain a Class template for Stack Data Structures.

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