



C14-CM/IT-405

4453

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DCME—FOURTH SEMESTER EXAMINATION
OOPSTHROUGH C++

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

Instruction : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(2) Answers should be brief and straight to the point and shall not exceed **five** simple sentences.

1. Define Polymorphism.
2. Define a Constructor. List the types of constructor.
3. Compare between Class and Structure.
4. List the features of inline functions.
5. What is this Pointer
6. Write the syntax for defining a derived class.
7. What is the need for inheritance?
8. What do you mean by Virtual Base Class?
9. What is the use of get() and put() functions?
10. What is Class template and how it is declared?

PART—B

5×10=50

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

11. Write a C++ program on Unary operator overloading.
12. Explain passing objects by reference to function with an example of program.
13. Write a C++ program on Unary operator overloading using friend function.
14. Write a C++ program using dynamic memory operator.
15. Write a C++ program on hierarchical inheritance.
16. Write a C++ program on Virtual functions.
17. (a) Write a C++ program and use any two pre-defined I/O manipulators. 5
(b) Explain file I/O functions: open(), read(), write(), count(). 5
18. Explain the creation of function based on templates.

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