

со9-см-404/со9-іт-404

3461

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL-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. Define class and object. Give example.
- **2.** Write syntax for defining member function outside the class definition.
- **3.** Write any two differences between class and structure.
- 4. What are the characteristics of friend function?
- 5. What are 'new' and 'delete' operators?
- 6. What is the relationship between base class and derived class?
- 7. List the types of access controls in inheritance.

* /3461

[Contd...

- 8. What is the need for virtual functions in C++?
- 9. List file opening modes.
- 10. What is a class template and how is it declared?

PART-B

10×5=50

- (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.	(a) Write a C++ program using 'constructor' and 'destructor'.	5
	(b) Write a C++ program using inline functions.	5
12.	(a) Explain how object can be passed to a function with a simple program.	5
	(b) Write a C++ program using a friend function that friend function should be friend of more than one class.	5
13.	Explain the concept of function overloading.	10
14.	Write a C++ program illustrating the use of array of objects.	10
15.	Write a C++ program to implement multilevel inheritance.	10
16.	Explain about virtual functions with the help of a program.	10
17.	Explain I/O manipulators with examples.	10
18.	Explain a class template for stack data structures with program.	10

* * *

AA7(A)—PDF