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Total Pages: 03

BT-3/D-22

43330

OBJECT ORIENTED PROGRAMMING PC-CS-AIML-205A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

- (a) What do you understand by Data Abstraction?
 What are the advantages of using an Object Oriented approach to develop the software.
 - (b) What is the difference between compile time and run time polymorphism? Explain using suitable examples.
- 2. (a) What is a class? What is the relationship between object and class? Write a program that shows how to access member functions. How to create and access object in C++?
 - (b) What is the concept of namespace in C++? Explain its importance.

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Unit II

3.	(a)	What do you understand by Visibility Modifiers?
		Discuss the access control to the public, private and
		protected members of derived class in case of public
		derivation, private derivation and protected
		derivation. 8
	(b)	What is the use of friend functions? Write a code
		in C++ to access friend class.
4.	(a)	Describe the working of constructors and destructors
		in Inheritance.
	(b)	Explain the concept of Dynamic memory allocation
		and deallocation using new and delete keywords. 8
		Unit III
5.	(a)	What is operator overloading? Write a program in
		C++ to overload and the + operator as a friend
		function.
	(b)	Under what circumstances overloading using friend
		function becomes necessary?
6.	(a)	Why do we use Virtual functions? Explain. 7
	(b)	When do we make a virtual function "pure"? What
		are the implications of making a function a pure
		virtual function ?
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Unit IV

- 7. (a) What is an exception? Explain exception handling mechanism of C++ with suitable example.
 - (b) Write a function template for finding the maximum value in an array.
- 8. Write short notes on the following:
 - (a) Sequential and random file operations.
 - (b) Rethrowing an exception
 - (c) Exception and Inheritance.

