

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	3	4	2	3
---	---	---	---	---

Exam. Code :

5	0	4	2
---	---	---	---

**Bachelor of Computer Application (FYUP) 2nd Semester
(2056)**

OBJECT ORIENTED PROGRAMMING USING C++

Paper : BCA-DSC-2 (Min)-203

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :— Attempt ONE question from each Unit I-IV and Unit V is compulsory. All questions carry equal marks.

UNIT-I

1. What is Object Oriented Programming (OOPs)? Explain the characteristics of OOPs. 9
2. What are objects and how they are created? How memory is allocated to the objects? Write a sample program to demonstrate them. 9

UNIT-II

3. What is a function? Discuss the concept of inline function and friend function by giving appropriate examples. 9
4. Why do we use constructors? What are the different rules to declare a constructor? Explain constructor types using suitable example. 9

13423/PG-19237

1

[Turn over

UNIT-III

5. What do you mean by inheritance? Explain the different types of inheritance by giving example of each. 9
6. What do you mean by polymorphism? Differentiate the static and dynamic polymorphism by giving the example of each. 9

UNIT-IV

7. What do you mean by exception? Discuss the exception handling mechanism by giving suitable example. 9
8. Discuss open, read, write and close operations to a binary file using file streams by taking example of each operation. 9

UNIT-V

9. (i) Difference between New and Delete operator. 2
- (ii) Difference between Encapsulation and Abstraction. 2
- (iii) Difference between Pass by value and Pass by reference. 2
- (iv) Difference between Base class and Derived class. 2
- (v) Difference between Throw and Rethrowing of an exception. 1