

Roll No.

Total Pages : 02

GSM/D-23

1127

**OBJECT ORIENTED PROGRAMMING
USING C++
BCA-231**

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Explain passing parameter to a function in C++. 4
- (b) Explain hierarchy of console stream classes in detail. 4
- (c) What is Manipulator ? Explain various types of manipulator. 4
- (d) Explain precedence of operators in C++. 4

Unit I

2. (i) What is object oriented programming and explain main features of object oriented programming language. 10
- (ii) What is data member and member function ? 6

3. (i) What is scope resolution operator and its significance ?
(ii) What is data hiding and encapsulation ? Explain with example.

Unit II

4. What is Constructor ? Explain various types of constructors with example.
16
5. Explain various formatted and unformatted input output operations in C++.
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Unit III

6. What is dynamic memory management ? Explain new and delete operator with the help of a program.
16
7. Explain various string related functions by giving suitable examples in C++.
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Unit IV

8. What is function overloading ? Explain in detail with the help of a program.
16
9. What is operator overloading ? Write a program for unary operator overloading.
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