

BCA EXAMINATION 'APRIL - 2015'

SEMESTER 3

Sub: (302) OBJECT ORIENTED PROG. USING C++
Time: 2 hours

Paper Code: 2958
Marks: 70

- Q - 1 (a) Explain concept of OOP. 7
(b) (i) Compare Classes and Structure in C++ 4
(ii) State Advantages of OOP 3
- OR
- Q - 1 (a) Explain different type of computer 7
(b) (i) Compare OOP & POP 4
(ii) State the use of Scope Resolution operator in C++ 3
- Q - 2 (a) Discuss Constructor and Destructor in detail 7
(b) What is Inline Function? In which Situation Inline Function may not work? How does an inline function differ from a preprocessor macro? Write program using Inline Function to find largest of three numbers. 7
- OR
- Q - 2 (a) Explain Friend function with appropriate example. 7
(b) Explain the following concept array of objects, default argument with example. 7
- Q - 3 (a) What is the purpose of Static? Write Characteristics of Static Data Member and Static Member Function. Write a program that demonstrates the Static Data Member And static member function. 7
(b) Define Operator overloading. Create class Time that has three data members hour, minute and second and two constructor, default constructor and parameterized constructor to initialize data member. Write a program to add two times by overloading operator +. 7
- OR
- Q - 3 (a) What is Type conversion? Explain Categories of it. 7
(b) Write a C++ program that shows the use of ++ && -- operator. 7
- Q - 4 (a) Discuss Inheritance in detail. 7
(b) Explain Virtual function and Virtual Base class with example. 7
- OR
- Q - 4 (a) Discuss Polymorphism with diagram and example 7
(b) Explain this pointer and Pure Virtual function with example. 7
- Q - 5 (a) Explain Exception Handling with syntax and example. 7
(b) Discuss read() & write() in file with example. 7
- OR
- Q - 5 (a) Explain ifstream, ofstream and fstream classes with small example. 7
(b) Discuss use of seekg(), seekp(), tellg(), tellp() with example. 7