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Anna University Exams Nov/Dec 2015 – Regulation 2013
Rejinpaul.com Unique Important Questions – 3rd Semester BE/BTECH
CS6301 - Programming and Data Structures -II

UNIT – I

1. Explain Basic Concept of OOP in detail with example program and compare with conventional programming
2. Explain constructors and destructors with C++ Code
3. Discuss about (a) Inline function (b) Friend function (c) Static member (d) Static member function
5. Discuss about "this pointer" with C++ Code. Elaborate on pointer to constants and constant to Pointers?

UNIT – II

1. Explain the different types of inheritances with C++ code for Each type
2. Explain compile time polymorphism. [MAY/JUNE 2014]
3. What is operator overloading? Overload the numerical operators '+' and '/' for complex numbers
4. Discuss with C++ Code (a) virtual function(ii) Pure Virtual Function

UNIT – III

1. Explain the file handling techniques with an example.
2. List the different stream classes supported in C++
3. Explain Exception handling mechanism with C++ Code
4. Write a class template (a) to insert an element into a linked list (b) implement a stack.
5. Highlight the features of STL

UNIT – IV

1. What are AVL Trees? Describe the different rotations defined for AVL Tree. Insert the following elements step by step in sequence into an empty AVL Tree 15, 19, 20, 25, 28, 24, 31, 26.
2. What are the properties of Red black trees? Construct a red black tree with the following:
10,85,15,18,70,30,60,40,50,65,80,90,40,55.
3. Explain Splay tree in detail with its properties.
4. Write algorithm to construct (a) Fibonacci heap (b) Binomial heap with suitable example.

UNIT – V

1. Construct a minimum spanning tree for the graph using Prim's algorithm.
2. Explain the method of constructing minimum cost spanning tree using Kruskal's algorithm.
3. What is topological sort? Write an algorithm to perform topological sort
4. Explain Floyd Warshall's algorithm with suitable example.

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