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## II/IV B.Tech (Supplementary) DEGREE EXAMINATION

APRIL , 2017

THIRD SEMESTER

Time: Three Hours

Object Oriented Programming using C++

CSE &amp; IT

Maximum : 60 Marks

Answer Question No.1 compulsorily.

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

(1X12=12 Marks)

- 1 Answer all questions
  - a) Define inline Functions
  - b) What an Object
  - c) Define function overloading
  - d) Define Exception Handling
  - e) What is Virtual Function
  - f) Which operators cannot overloaded in C++
  - g) What are Casting Operators
  - h) Write a Simple program on getline() function
  - i) What is virtual base class
  - j) What is general form of C++ program
  - k) Write benefits of templates
  - l) What is a stream

## UNIT I

- 2 a) Explain the features of OOP Concepts 4M
- b) Define a simple class for student with 4 properties and any two simple methods 4M

(OR)

- 3 a) Write a C++ program which implements Nested classes 8M

## UNIT II

- 4 a) Write a C++ program to implement function overloading 4M
- b) Define friend function and explain how to use friend function for overloading 4M

(OR)

- 5 a) Define Inheritance? Explain the concept of multiple base classes with example 8M

## UNIT III

- 6 a) Define pure virtual functions? Explain the concept of Early and late binding with Example 8M

(OR)

- 7 a) Explain the applications of Generic Functions 4M
- b) Write a simple program on Exception handling 4M

## UNIT IV

- 8 a) Explain Stream classes for file I/O with example programs 8M

(OR)

- 9 a) Explain any two Standard template Libraries in C++ 8M