Printed Pages: 02 Subject Code: RITOS Paper Id: 113503 Roll No: BTECH (SEM V) THEORY EXAMINATION 2018-19 OBJECT ORIENTED TECHNIQUES Time: 3 Hours Total Marks: 70 Notes: Assume any Missing Data. SECTION A Attempt all questions in brief. 1. 2 x 7 = 14 a. Define Dynamic Binding Differentiate synchronous and asynchronous messages. c. What will be the output of the program? Justify #include<iostream> using namespace std; main() { int const a = 5; a++. cout<<a: d. Differentiate Call by reference and return by reference e. What is the significance of access specifiers in a class? What is the use of typedef? g. List the four kinds of relationship in UML SECTION B Attempt any three of the following:  $7 \times 3 = 21$ What do you mean an object Discuss the various characteristics of object with examples? b. Explain UML we use UML and draw architecture of UML c. What do you understand by Modeling? Explain the principles of modeling. d. Discuss array in C++ Write a program of bubble sort in c++. e. Explain Type Casting in C++ and determine its types-SECTION  $7 \times 1 = 7$ Attempt any one part of the following: (a) Discuss JSD and its approach comparing with object modeling techniques. (b) Show the difference between reference and pointers. Demonstrate pointer constant and pointer to constant using example. 7x1 = 7Attempt any one part of the following: (a) What do you mean by operator overloading? What are the pitfalls of operator overloading? Explain in brief (b) What are the three models in OMT? How object oriented analysis and design attached with OMT. Explain with example Download all NOTES and PAPERS at StudentSuvidha.com

## 5. Attempt any one part of the following:

- (a) Describe the concept of inheritance and its types with example in c++.
- (b) Illustrate Polymorphism in c++ with suitable example

## 5. Attempt any one part of the following:

 $7 \times 1 = 7$ 

- (a) Design a program of swapping in c++ using friend function and describe friend function in detail.
- (b)Explain the concept of Virtual function and Pure Virtual function.

## Attempt any one part of the following:

 $7 \times 1 = 7$ 

- (a) Draw UML Timing Diagram for ATM machine
- (b) Draw UML Class Diagnost for Library Management System

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