Total No. of Questions :8]   [Total No. of Printed Pages :2

Roll No ....

MCTA - 103
M.E./M.Tech., I Semester
Examination, June 2016
Object Oriented Modeling and UML

Time : Three Hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

1. a) List the nine graphical diagram defined by UML and illustrate with example.   7

   b) What is data hiding? Explain different access modifiers. What do you mean by dynamic initialization of object?   7

2. a) How use case driven approach is useful in software design? Explain with example.   7

   b) Differentiate between components and classes. Discuss about CORBA Architecture.   7

3. a) What is Polymorphism? How Polymorphism achieved in C++, How sample code fragment?   7

   b) Explain in brief Object Oriented development life cycle.   7

4. a) Describe sequence diagram for safe security system.   7

   b) Draw the use case for transaction such as transaction history, deposit amount, checking account and saving account.   7

5. a) Draw state diagram for the working of banking system.   7

   b) Define Class Diagram? What is the purpose of class diagram? Describe icons used for class relationships.   7

6. a) Explain the features and benefits of CORBA? How client and server objects communicate using CORBA.   7

   b) How does object-oriented approach differ from the object-based approach?   7

7. a) Explain the various features of Java Beans.   7

   b) The definition of classes and operations can often be adjusted to increase the amount of inheritance. Justify the statement.   7

8. Write short notes on the following (any four) :   14

   a) .NET

   b) Process and Threads

   c) Interface and Packages

   d) Activity Diagram

   e) State Machine

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