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Roll No

MSE - 205**M.E./M.Tech., II Semester**

Examination, December 2015

Object Oriented Analysis and Design*Time : Three Hours**Maximum Marks : 70*

Note: Total number of question eight. Attempt any five questions.
All questions carry equal marks.

1. a) How does object-oriented approach differ from the object-based approach. 7
b) Describe the different steps of object oriented design approach. 7
2. a) How use case driven approach is useful in software design. Explain with example. 7
b) What is OMT approach to design a system? What are different stages of OMT? Explain. 7
3. What do you understand by the following terms and how will you represent them in an object model? 14
 - i) Link and association
 - ii) Multiplicity
 - iii) Role names
 - iv) Aggregation
 - v) Link attribute
4. a) What is UML? Discuss importance of UML. 7
b) What is open source object database? Compare it with object oriented database. 7

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5. a) What is the importance of use case diagram? Explain relationships between use cases with suitable example and proper UML notations. Draw use case diagram for an 'Online railway ticket reservation system'. 7
b) Define Class Diagram? What is the purpose of class diagram? Describe icons used for class relationships. 7
6. a) Write comparison between relational vs object oriented databases. Also explain the architecture of object oriented databases. 7
b) Construct a state diagram for a restaurant system and explain. 7
7. a) Explain the various features of object oriented language. 7
b) What is DFD? What are the different levels of DFD? 7
8. Write short notes on the following: (Any Four) 14
 - a) Multiple Inheritances
 - b) Advance concepts in Dynamic Modeling
 - c) Concurrency
 - d) Design documentation
 - e) Metadata

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