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Roll No

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

Examination, December 2016

Object Oriented Analysis and Design

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) What is Object Oriented Modeling? Explain characteristics of Object Oriented Modeling.
 - What are the three models involved in OMT? Define each one of them.
- a) What is Object? Discuss the main characteristics of the object with examples from the real world.
 - b) Define UML. Explain modeling using interaction diagram.
- 3. a) How can you combine object model, dynamic model and functional model to obtain operations on classes?
 - Define Association. Discuss the characteristics and OMT notations of the association.
- a) Define the following concepts with examples and their notations:

State, Event, Transition, Action and Activity.

 Draw an event-trace diagram for withdrawing money from ATM.

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- 5. a) Distinguish between the following:
 - i) Action and Activity
 - ii) Initial and Final states
 - b) What is Data flow diagrams? Explain features of a DFD.

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- 6. a) What is relational database normalization? Why is a database schema in third normal form considered to be of higher quality than an unnormalized schema?
 - b) How is a class on a class diagram represented in ε relational database? Explain with example.
- 7. a) List and briefly describe the three basic approaches to program development order. What are the advantages and disadvantages of each?
 - What is Deployment? Explain the component and deployment diagram.
- 8. Write short note on any three:
 - i) Use case diagram
 - ii) Sequence diagram
 - iii) State diagram
 - iv) Functional model
 - v) UML

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