

Code No: B5804

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II Semester Examinations, October 2011

OBJECT ORIENTED ANALYSIS AND DESIGN

(COMPUTER SCIENCE AND ENGINEERING)

Time: 3hours

Max. Marks: 60

Answer any five questions
All questions carry equal marks

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- 1.a) What is meant by the UML? Discuss various modeling languages before UML.
b) With a neat diagram explain the software development life cycle. [12]
- 2.a) What are the relationships that can be defined among classes? Explain the context of their usage with suitable examples.
b) Where do we design Types and Roles in Object Oriented Modeling? Explain them in detail. [12]
- 3.a) What is meant by class diagram? Discuss its possibilities for forward and reverse engineering?
b) Draw a class diagram for a school information system. [12]
- 4.a) Discuss the need for drawing interaction diagrams. And also discuss the possibility for forward and reverse engineering of these diagrams.
b) Draw a Sequence diagram pertaining to withdrawal of money from ATM. [12]
- 5.a) Where do we use activity diagram? Is it possibility to forward engineer an activity diagram? If so explain with an example.
b) Discuss with an example how to use cases and how use case diagrams are used in modeling requirements. [12]
- 6.a) What are events? Discuss with suitable examples the common modeling techniques of events.
b) Differentiate between state chart diagram and activity diagram. Give suitable example for each of them. [12]
- 7.a) State and explain common modeling techniques of development diagram.
b) Discuss how to model an executable release with a component diagram? Give one example. [12]
- 8.a) Draw a class diagram for the unified library application.
b) Discuss how to model time and space in the UML. [12]
