

Code No: 09A60501

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-HYDERABAD

B. Tech III Year II Semester Examinations, December-2012

OBJECT ORIENTED ANALYSIS AND DESIGN

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions

All questions carry equal marks

- 1.a) Enumerate the steps to model architectural views.
 b) What are the characteristics of well-structured packages?
 c) Give an example UML diagram that depicts all the four relationships.
 d) Contrast is-a relationship with has-a relationship. [15]
- 2.a) What are the five constraints applied to association relationships? Give a brief.
 b) What are the visibility specifiers used for classes and packages? Explain. [15]
- 3.a) Briefly discuss about boundary classes, control classes and entity classes. Give suitable examples for them.
 b) Draw an object diagram for a company information system. [8+7]
- 4.a) What is semantic equivalence between sequence and collaboration diagrams.
 b) Explain the following illustrating interaction diagrams.
 i. Focus of control
 ii. Object lifetime
 iii. Path
 iv. Dewey decimal numbering. [15]
- 5.a) Define use case. What are the uses of use cases?
 b) Define actor. Illustrate actor specialization and use case specialization giving UML notation.
 c) Describe the use case "Validate user" in modeling an ATM system. [15]
- 6.a) Draw state chart diagram for unified library application.
 b) Describe the classes and interfaces require for library management system. And specify the relationship between them. [8+7]
- 7.a) Enumerate the steps to model each of the following:
 i. Adaptable systems
 ii. Physical database
 iii. Executable release
 iv. Source code
 b) What are the common uses of component diagrams? [13+2]
- 8.a) Draw use case diagram for library management system.
 b) Draw a diagram that shows set of nodes and their relationships for library System. [15]

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