

III B.Tech II Semester Regular/Supplementary Examinations, May 2010
OBJECT ORIENTED ANALYSIS AND DESIGN
Common to Information Technology, Computer Science And Engineering,
Computer Science And Systems Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Draw a sequence diagram for the Add title use case
(b) Draw the use case diagram for the library system and explain the relationships.
(c) Draw a class diagram of business objects in the design model and explain
[4+6+6]
2. (a) What is genericity?
(b) Enumerate the principle of modeling.
(c) Enumerate any six artifacts.
(d) Briefly explain the extensibility mechanisms in UML. [3+4+3+6]
3. (a) Enumerate the steps to model the distribution of responsibilities in a system.
(b) Enumerate the steps to model non-software things.
(c) Enumerate the steps to model primitive types. [8+4+4]
4. (a) Explain the forward engineering and the reverse engineering processes for statechart diagrams.
(b) Explain the following:
 - i. event, actions and guard conditions
 - ii. History states
 - iii. substrates: sequential and concurrent
 - iv. Reactive object.
(c) What are the contents, common properties and common uses of statechart diagrams. [4+8+4]
5. (a) Describe about polymorphism in collaboration diagrams.
(b) Explain iterated messages and use of self in messages.
(c) List out any four differences between the two kinds of interaction diagrams. [6+6+4]
6. (a) What is the use of forward engineering and reverse engineering UML diagrams?
(b) Enumerate the steps to model logical data base schema.
(c) Contrast object diagram with class diagram. [6+6+4]
7. (a) Enumerate the steps to model the following:

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- i. Adaptable systems
 - ii. Executable release
 - iii. Source code
 - iv. client/server system.
- (b) What are the characteristics of deployment diagrams? [12+4]
8. (a) Draw a use case diagram that depicts the context of a credit card validation system. Explain briefly.
- (b) Draw the UML diagram to model the requirements of a system.
- (c) What is the significance of use cases and collaborations. [8+4+4]
