

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) Write a Java program for the Loan class
(b) Draw a deployment diagram for the library system
(c) Draw activity diagram to inform a person when a loan is due [8+3+5]
2. (a) Enumerate the steps to model source code. Illustrate with a diagram in UML notation.
(b) Enumerate the steps to model an executable release. Illustrate with a UML diagram. [8+8]
3. (a) What are various parts of a transition. Explain briefly.
(b) Define event and signal. What are the four kinds of events modeled by UML? [10+6]
4. (a) Briefly explain the two stereotypes that apply to dependency relationships among packages.
(b) Briefly explain the two stereotypes that apply to dependency relationships among use cases.
(c) Briefly explain the eight stereotypes that apply to dependency relationships among classes and objects in class diagrams. [4+4+8]
5. (a) What are swimlanes? Explain with an activity diagram.
(b) How are forking and joining used in activity diagrams? Give example.
(c) What are the steps of forward engineer and reverse engineer an activity diagram? [8+5+3]
6. (a) Define association. How is it implemented in programming languages? Give examples for binary and ternary associations. Give UML notation for association.
(b) Explain any two relational properties of aggregation.
(c) Explain the various views in modeling a system's architecture. [6+4+6]
7. (a) Consider modeling a student information system. Consider the use case "student registers for a course". Draw a sequence diagram and explain briefly.
(b) Explain about collaboration diagrams. How are they contrasted with sequence diagrams? What is semantic equivalence with interaction diagrams? [8+8]

Code No: 07A6EC09

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Set No. 2

8. (a) Enumerate the steps to model simple collaborations.
- (b) Describe forward engineering and reverse engineering.
- (c) The cellular network must place the phone call correctly, and also schedule the receiving and conference calls. Draw a class diagram. [6+2+8]
