

Code :R7320506

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III B.Tech II Semester(R07) Regular & Supplementary Examinations, April/May 2011
OBJECT ORIENTED ANALYSIS & DESIGN

(Common to Computer Science & Engineering, Information Technology, Computer Science &
Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Explain How the UML addresses four aims of Modeling?
2. (a) Explain about the steps for Modeling the Primitive things in detail.
(b) Explain about the types of Relation ships in UML with example.
3. Explain about the steps involved in modeling a Logical Database Schema with examples.
4. Explain about the steps involved in modeling the flow of control.
5. (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. Explain briefly.
6. (a) What is a state? What are the several parts of States?
(b) What is a transition? Explain the several parts of Transitions.
(c) Enumerate the steps to model the life time of an Object.
7. Explain the common modeling techniques of deployment.
8. (a) Draw a class diagram showing architectural overview of the library system.
(b) Explain "Issuing of a book" operation using collaboration diagram.

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1. Explain in detail about UML Language.
2. Explain about Association names, Roles, Multiplicity and Aggregation With examples.
3. Explain about the steps involved in modeling to Forward Engineer a Class diagram with examples.
4. Explain about the following:
 - (a) Procedural sequencing
 - (b) Steps involved in modeling the flow of control
5.
 - (a) Draw a use case diagram to model the behavior of a cellular phone. Explain briefly.
 - (b) What are the relations ships that can be possible in between the actors and in between the uses cases? Explain with an example.
6.
 - (a) Differentiate between a Process and a thread.
 - (b) What are the two standard stereotypes that apply to active class?
 - (c) Explain and model the behavior of an ATM machine with the help of a statechart diagram.
7.
 - (a) Explain how forward engineering and reverse engineering can be done using a component diagram.
 - (b) Draw a well structured component diagram for illustrating a simple application of client-server system and explain the properties.
8.
 - (a) What are the packages in the Library system? Explain.
 - (b) Draw a sequence diagram for the use case Lend Item and explain.

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1. Explain about Conceptual model of UML in detail.
2. Explain about the steps for modeling the Structural Relationships with example.
3. Define Object Diagram. Explain about the Graphical Representation of object diagram of UML in detail.
4. Define Interaction diagram. Explain about the graphical representation of Interaction diagram of UML in detail.
5. Explain how a use case diagram is forward engineered and reverse engineered.
6. (a) Enumerate the steps to model the life time of an object with an example.
(b) Discuss sequential substates and concurrent substates with an example.
7. (a) Enumerate the steps to reverse engineer a deployment diagram.
(b) Enumerate the steps to model a physical database schema.
(c) Explain the properties of a component diagram.
8. What are the various object participating in the library information system? Explain the object diagram that is associated with various interactions with a neat diagram.

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1. Explain about Software development Life cycle in detail.
2. Explain about notes, Stereotype, Tagged Values and Constraints with examples.
3. Explain about the steps involved in modeling the Object Structures With examples.
4. Explain about the steps involved in modeling the flow of control by time ordering.
5. (a) Enumerate the properties of a well-structural use case.
(b) A retail system will interact with customers who place and track orders. Give UML diagram that uses various use cases.
6. (a) Explain the need of synchronization along with the three properties.
(b) Enumerate the steps in modeling the multiple flows of control with the help of an example.
7. (a) Enumerate the steps to model adaptable systems. Illustrate with an example.
(b) Enumerate the steps to model an executable release. Illustrate with an example.
(c) What are the common uses of component diagrams?
8. What are the states that are associated with Borrowing a book from a library system? Draw the state chart diagram that explains various states of a book during the processing.
