

Code No. B5804

JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY, HYDERABAD
M .Tech. II Semester Supplementary Examinations, March – 2009
OBJECT ORIENTED ANALYSIS & DESIGN
(Common to Computer Science & Engineering and Computer Science)
Time: 3 hours **Max. Marks.60**

Answer any Five questions
All questions carry equal marks

- 1.a) Define the following terms:
 - i) UML
 - ii) Stereo type
 - iii) Activity
 - b) What is visual modeling? List and explain any three principle of modeling.
 - c) Discuss the following relationships in UML:
 - i) Generalization
 - ii) Realization.
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- 2.a) Differentiate the following concepts of UML. Atleast three difference to be given in each.
 - i) Sequence & Collaboration diagrams.
 - ii) State & Activity
 - iii) Use case & Scenerio.
 - b) What is a reflexive association? Give an example.
 - c) Explain the following stereo types used in case diagrams:
 - i) Extends
 - ii) Includes
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3. Consider an online reservation system you want to check airline web sites to give you ideas:
 - a) List two actors. Explain relevance of each actor.
 - b) One use case is to make a flight reservation. List four additional use cases at comparable level of abstraction. Summarize each in one/two sentences.
 - c) Prepare a use case diagram for an online reservation system.
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- 4.a) Prepare an activity diagram (using swim laws) that elaborates the retails of lagging into an email system. Note that entry of the user name & the pass word can occur in any order.
 - b) What is use case realization? Give an example?
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- 5.a) List & explain the uses of interaction diagrams.
 - b) What is use case driven approach? How is it different from architecture-centric approach? Which one is recommended for OO system & Why.
 - c) What are reactive objects? Give an example.

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- 6.a) Draw a state diagram for a vending machine. The machine dispenses various soft drinks packed in metal cans when a correct coin is inserted. If a wrong coin is inserted or the selected soft drink is sold-out, the coin is returned lack. If a higher order denomination coin is inserted, the balance amount is returned back if the machine has an exact change. Else, the coin is returned back. At a time the vending machine can dispose only one soft-drink.
- b) What are component diagrams? What is their application?
7. Write short notes on the following:
- a) An notational things
 - b) Active classes
 - c) Association classes
 - d) Visual modeling.
- 8.a) Discuss the two standard stereo types that apply to active classes.
- b) List and explain the three types of components in UML.
- c) What is a node in deployment diagram? How is it represented in UML?
