

**R09**

Code No: 09A60501

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**

**B. Tech III Year II Semester Examinations, November/December-2013**

**OBJECT ORIENTED ANALYSIS AND DESIGN**

**(Computer Science and Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any five questions  
All questions carry equal marks**

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- 1.a) What is modelling? State and explain the principles of modelling.
- b) Explain the significance and importance of the UML. [15]
- 2.a) Discuss how to model template classes and semantics of a class in the UML.
- b) What are the eight stereotypes that apply to dependency relationship among classes? Explain them. [15]
- 3.a) Draw the class diagram for school information system. Explain clearly the process of identifying attributes and operations in these classes.
- b) Write the difference between link and association. [15]
- 4.a) Collaboration diagram with an example.
- b) The sequence diagrams can be used in use case description. Discuss it with an example. [15]
5. What is an activity diagram? Discuss various concepts in it? State and explain with suitable examples the common uses of activity diagrams. [15]
- 6.a) Explain how to model concurrent substates in the UML.
- b) Explain with an example how to model life time of an object in the UML. [15]
7. Discuss various uses of component diagrams with suitable examples. [15]
8. Write short notes on the following  
a) State chart diagram  
b) object diagram [15]

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