

Code: 9F00503

MCA - V Semester Regular & Supplementary Examinations, October/November 2012

**OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)**

(For students admitted in 2009 & 2010 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 Write about the conceptual model of UML in detail.
- 2 (a) Explain briefly the various common mechanisms in UML.  
(b) What is a role? Explain different types of roles in modeling an example.
- 3 (a) Enumerate the steps to model the distribution of responsibilities in a system.  
(b) Enumerate the steps to model non-software things.
- 4 (a) What are the common properties and uses of interaction diagrams?  
(b) Draw a sequence diagram that specifies the flow of control involved in registering a new student at a school.
- 5 (a) Enumerate the steps to model a workflow with reference to activity diagrams.  
(b) Consider modeling a railway reservation system. Consider the use case "specify ticket details" and draw a activity diagram. Explain briefly.
- 6 (a) What is an event? Explain event with an example.  
(b) Enumerate the steps to model inter process communication.
- 7 (a) What are the contents? Common properties and common uses of component diagrams. Explain briefly.  
(b) Enumerate the steps to model an executable release.
- 8 (a) What are the differences between a pattern and framework?  
(b) Using an Artifact diagram explain the unified library application.

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