

**FACULTY OF INFORMATICS****B.E. 3/4 (I.T.) II - Semester (Main) Examination, May / June 2015****Subject : Object Oriented System Development****Time : 3 Hours****Max. Marks: 75****Note: Answer all questions from Part - A and answer any five questions from Part-B.****PART – A (25 Marks)**

- 1 Write the difference between Iteration and Incrementation. (3)
- 2 What are the different factors that influence the architecture of a system? (2)
- 3 Define use case model. What is its use? (2)
- 4 Define Testing. (2)
- 5 "UML is a language for construction". Justify (2)
- 6 Define the following Relationships with notations. (3)  
(a) Dependency (b) Association (c) Realization
- 7 Define Interface and package with notations. (3)
- 8 Define composite and history states of a state machine. (3)
- 9 Write the difference between sequence and collaboration diagrams. (2)
- 10 Define component and deployment diagrams. (3)

**PART – B (50 Marks)**

- 11 (a) Explain the life cycle of unified process. (5)  
(b) Write steps for software development process. (5)
- 12 Explain requirements capture steps with an example. (10)
- 13 List and briefly explain the elements of UML. (10)
- 14 (a) Define a class and explain the concept of classes and their relationships with an example. (5)  
(b) Write steps to implement forward engineering. (5)
- 15 Explain activity diagram with swim lanes and synchronization bars and illustrate with an example. (10)
- 16 (a) Define use case and elements present in use case diagrams. (5)  
(b) Explain different stereo types that apply to use cases. (5)
- 17 Define the following:
  - (a) Deployment collaboration (3)
  - (b) Patterns and frameworks (4)
  - (c) Systems and models (3)