Code No.: 6357

FACULTY OF INFORMATICS

B.E. (III/IV Year) (I.T.) II Semester (Main) Examination, June 2010

OBJECT ORIENTED SYSTEM DEVELOPMENT

Time: 3 Hours]

(ii) Dependency

(iii) Notes.

[Max. Marks: 75

Answer all questions from Part A. Answer any **five** questions from Part B. **Part A - (Marks : 25)** Explain briefly the following terms: (b) Dependency 3 (a) Association Differentiate the following: 2. (b) Use case and Scenario 3 (a) Activity and State What is structural modeling of a system? How is it different from behavioral 3. modeling? What is multiplicity? How is it represented in UML? Give an example. 3 2 What are tagged values in UML? Give an example. 5. 2 Give elements of UML. What are artifact diagrams? 2 7. 2 What is requirements capture? 8. "The unified process is architecture centric". Justify. 3 9. 2 10. What are the responsibilities of a software architect? **Part B** – (Marks : $5 \times 10 = 50$) 11. (a) Discuss the following concepts of UML with the help of an example. (i) Generalization

(b) "UML is used for visualizing, specifying, contracting and documenting the artifacts of a software intensive system". Justify.

5

12.	to to the pull after Accordan	ume that a professor is planning to write a book. In this process three people are olved; author, reviewer and publisher. The author writes a chapter and submits the receiver. The author writes the next chapter provided that the reviewer accepts previous one. After all the chapters are completed, the book is given to the olisher who in tern makes the book in a ready-to-print form. The book is printed or the author and reviewer approve. 10 complish the following for the above discussion: Use case diagram. Activity diagram using swim lanes.
13.	(a)	Explain the following parts of transition:
	. ,	(i) Guard Condition
		(ii) Action
		(iii) Target State.
	(b)	Discuss the concept of deferred event with the help of an example.
14.	(a)	Briefly explain the difference between class diagram and object diagram with an example.
	(b)	Discuss any two features of sequence diagram that make them different from collaboration diagrams.
15.	(a)	Explain the following relationships in use case diagrams:
		(i) extends
		(ii) includes
		(iii) uses.
	(b)	Discuss the influence of the following in software development:
		(i) Process
		(ii) People.
16.	(a)	What is software architecture? Why we need it?
	(b)	What do you mean by iterative and incremental software development? Can they be used to mitigate risk? Justify your answer.
17.	(a)	An do you understand a system context using a domain model. 4
	(b)	Discuss the artifacts of a design model.