Code No: 126VQ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD To be seen a second of the seco

,	Time:	(Common to CSE, IT) 3 hours Max. Mar	ks: 75
	Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. consists of 5 Units. Answer any one full question from each unit. Each question 10 marks and may have a, b, c as sub questions.	
		PART - A	
		(25 N	Marks)
	1.a) b) c) d) e) f) g) h) i)	What is the importance of modeling? Explain why object oriented approach is preferable when compared to approaches? What is visibility of an element owned by a package? What are the steps to model simple collaborations of class diagram? Distinguish between activity and action state in UML. Explain briefly about usecase flow of events. Discuss how to depict iterated and broadcast messages in interaction diagrams. What are the properties of a well structured component diagrams? Enumerate steps to model concrete instances in UML.	[3] [2] [3] [2] [3] [2] [3] [2]
/	j)	What is node? How to organize nodes in UML?	[3]
		PART - B	(Jordan)
		(50 1	Marks)
	2.a) b) 3.	Write about structural things of UML vocabulary. Give UML notation. What are principles of modelling? Explain. OR Explain briefly about following terms: a) Stereotypes	[5+5]
		b) Tagged Values c) Constraints [3	3+3+4]
	4.a) b)	What is a class diagram? What are the common properties and uses of class diagrams, enumerate the steps to forward engineer. OR	rams? [5+5]
:	5.a) b)	Enumerate steps to model vocabulary of a system. Enumerate steps to model distribution of responsibilities in a system.	[5+5]

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6.a) b)			aplain about use condeling techni			[5+5]	
7.a) b)	Explain about forking and joining concepts in activity diagram with an example. Draw swimlane flowchart for financial accounting template and customize it to show your processes and procedures. [5+5] How will you model distribution of objects. What is an event? What are different types of events? OR Enumerate the steps in modeling timing constraints. Illustrate with a UML diagram. Consider an object diagram that models the distribution of certain objects in a real time system. Draw the diagram and explain briefly. [5+5] Draw an use case diagram for hospital information system aimed at collecting and storing complete information pertaining to the patients.						
8.a) b)							
9.a) b)							
10.a)							
b)							
<i></i> b)	system./ Explain brie	fly about bound	ary, control and	entity classes.	ン・ノ Give suitable ex	amples. [5+5]	
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