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Cod	e No: 126VQ	\mathbf{R}	15	
Cou	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY			
AG	B. Tech III Year II Semester Examinations, April - 2 OBJECT ORIENTED ANALYSIS AND DESIGN (Common to CSE, IT)	018	AG	A
Tim	e: 3 hours	Max. Marl	ks: 75	
Note AG	Part A is compulsory which carries 25 marks. Answer all question consists of 5 Units. Answer any one full question from each unit. 10 marks and may have a, b, c as sub questions.	ons in Part A. l Each question o	Part B carries	A
Co.	PART - A			
((25 M	(arks)	
1.a) b) c) d) e) f)	What is the importance of modeling? Explain why object oriented approach is preferable when 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 interactio What are the properties of a well structured component diagrams?	Д() ?	[2] other [3] [2] [3] [2] [3] [2] [3]	A
△ (j)	What are the properties of a well structured component diagrams? Enumerate steps to model concrete instances in UML. What is node? How to organize nodes in UML?	AG	[2]\([3])	Å
	PART - B	(50 Marks)		
			urus)	
2.a) b) 3.	Write about structural things of UML vocabulary. Give UML notation what are principles of modelling? Explain. Explain briefly about following terms: a) Stereotypes b) Tagged Volves		[5+\$]	Д
	b) Tagged Values c) Constraints	[3+	3+4]	
4 a)	What is a close discours? What are the common of			
4.a) b) 5.a)	What is a class diagram? What are the common properties and uses With reference to class diagrams, enumerate the steps to forward en OR Enumerate steps to model vocabulary of a system.	of class diagrai	ms? [5+5]	A
b)	Enumerate steps to model distribution of responsibilities in a system	n.	[5+5]	
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What is meant by usecase? Explain about use case description with an example. 6.a) State and explain the common modeling techniques of usecase diagrams. [5+5] b) Explain about forking and joining concepts in activity diagram with an example. 7.a) Draw swimlane flowchart for financial accounting template and customize it to show b) your processes and procedures. [5+5]8.a) How will you model distribution of objects. What is an event? What are different types of events? [5+5]b) OR Enumerate the steps in modeling timing constraints. Illustrate with a UML diagram. 9.a) Consider an object diagram that models the distribution of certain objects in a real time b) system. Draw the diagram and explain briefly. [5+5]Draw an use case diagram for hospital information system aimed at collecting and 10.a) storing complete information pertaining to the patients. Draw sequence diagram for hospital information system. [5+5]Draw a diagram that show set of nodes and their relations for library management system. b) Explain briefly about boundary, control and entity classes. Give suitable examples. [5+5]