Name: Enrolm	ent No:	UPES UNIVERSITY OF TOMORROW		
Progra Course	Program: Object Oriented Analysis and Design using UML Tin		nester : 2	
	SECTION A			
S. No.	(5Qx4M=20Marks)	Marks	СО	
	User ID Basic Salary Accountant HRA Salary Calculator Bonus			
	<ul> <li>a) Accountant and System both are acting like prima actors</li> <li>b) There is inheritance relationship between HRA and salary calculator</li> <li>c) System can access the user ID</li> </ul>			

	invalid		
Q2.	Identify the incorrect statements:		
	<ul> <li>a) Analysis focuses on understanding the solution and Design focuses on understanding the problem.</li> <li>b) State model's viewpoint is "life history of objects"</li> <li>c) The static parts of a UML diagram are represented by classes, interfaces, objects, components &amp; nodes.</li> <li>d) Object oriented modeling approach doesn't allows resuability of analysis, design and programming results.</li> </ul>	4	CO2
Q3	Consider the following sequence diagram.		
	a:A       b:B       c:C         imsg1       imsg2         imsg3       imsg3         imsg4       imsg4 <t< td=""><td></td><td></td></t<>		
		4	CO3, CO4
	A B C		
	msg1 msg2 msg3		
	Statement 2: The class diagram below is consistent with the sequence diagram.		
	A B C		
	msg1 msg2 msg3		
	Statement 3: Message msg2 is received before msg3 has been sent. Statement 4: Message msg2 is sent after msg1 has been received.		
Q4	On February 21, 2014 user Ettozyame has asked the following question on the popular Q&A site StackOverflow: "I want to know in detail about the	4	CO5

Q5	difference between alt and opt fragment in sequence diagram, they seem similar, I can't distinguish them. Anyone knows about this thing?" Which of the following statements are correct? Statement 1: alt is used to described alternative scenarios. Only one of the options will be executed. opt is used to describe an optional step. Statement 2: alt is more used for several choices, like a switch, while with opt code will be executed or not. Statement 3: an opt fragment cannot be enclosed in other combined fragments such as strict or par, while alt can be enclosed in other combined fragments such as strict or par, while opt can be enclosed in such fragments. Statement 4: an alt fragment cannot be enclosed in such fragments. Arrange the below sequences for the activity diagram in the correct order. Image the below sequences for the activity diagram in the correct order. Image the below sequences for the activity diagram in the correct order. I.An applicant wants to enroll in the university. 2. The registrar inspects the forms 3. The applicant hands a filled-out copy of enrollment Form 4. The registrar helps the student to enroll in Seminars 5. The registrar determines that the forms have been filled out properly. 7. The registrar asks the student to pay for the initial tuition.	4	CO4
	(4Qx10M= 40 Marks)		
Q6	Describe the strategies used to identify conceptual class. Describe the steps to create domain model used for representing conceptual classes.	10	CO4
Q7	What do you understand by modeling? Explain the concept of "views" in UML?	10	CO1
Q8	What is the relationship between sequence diagrams and use cases? Take an example to show the relationship, highlighting the advantages.	10	CO3
Q9	For an atm system, every user has to be validated with a PIN number to make a transaction. A customer is allowed three times to validate card giving the correct PIN number. Show the component or deployment	10	CO5

	diagram representation for the same elaborate the 'validate user' use case via use case diagram. OR Describe the strategies used to identify conceptual class. Describe the steps to create domain model used for representing conceptual classes. SECTION-C		
	(2Qx20M=40 Marks)		
Q10	<ul> <li>a) Define Aggregation and Composition.</li> <li>b) What is meant by Low coupling?</li> <li>c) What is the use of System sequence diagram?</li> <li>d) Briefly explain the different phases of Unified Process.</li> <li>e) Explain about the next gen POS system.</li> </ul>	20	CO3, CO4, CO5
Q11	Draw the use case diagram for following specification: A coffee vending machine dispenses coffee to customers. Customers order coffee by selecting a recipe from a set of recipes. Customers pay for the coffee using coins. Change is given back, if any, to the customers. The "Service staff" loads ingredients (coffee powder, sugar, milk, water, chocolate) into the coffee machine. The "Service staff" can also add a recipe by indicating the name of the coffee, the units of coffee powder, milk, sugar, water and chocolate to be added as well as the cost of the coffee.	20	CO2