

YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY, FARIDABAD B.Tech Examination7th semester (under CBS) Object Oriented System Design (CE-405)

Time: 3 hours	MM : 60
Part A: Question 1 is compulsory	
1. a) How are good systems built?	
b) What is an object? Describe the characteristics of the same.	
c) What is Rational Rose?	
d) Differentiate between instances and abstractions?	
e) Are use cases are same as functional requirements?	
f) What is a sequence diagram?	
g) What are the different types of message arrows?	
h) What do you understand by forking and joining?	
i) How UML is iterative and incremental in nature?	0
j) How do you represent boundary, entity and control class in UML	
	(2X10= 20)
Part B: Attempt any four out of six questions:	
2. a) Write the steps of creating a class in Rational rose?	5
b) What are the characteristics of a good actor?	5
3. a) What are swimlanes? Draw an appropriate activity diagram to show t	:he
swimlanes?	5
b) What are expansion regions? In which UML diagrams they fall into? I with the help of suitable example?	Explain them 5
4. a) What are state machines? Draw a UML Behavioural state mach	nine diagram
describing Bank Automated Teller Machine (ATM).	5
b) What is the importance of relationships in UML? Describe the	simple and
advanced relationships pertaining to use-case diagrams, class dia	agrams and
package diagrams.	5
5. What is objectory? State the characteristics and the different phase	ses of
objector?	10
6. a) What is an Iteration planning process? What is its need?	3
b) What is the need of homogenisation of classes?	3
c) Describe the importance of 'Architecture' in software developme	ent lifecycle?
	4
Draw a detailed Class diagram for student admission process.	10