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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, January - 2018 OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)

Time: 3 Hours Max. Marks: 60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A		
	$5 \times 4 \text{ Marks} = 20$	
1.a) b)	Explain the importance of modeling.  Enumerate the steps to model the vocabulary of a system.	[4] [4]
c)	Explain use case diagram with an example.	[4]
d) e)	What are the characteristics of component diagrams? Who are the actors involved in the library system?	[4] [4]
c)	who are the actors involved in the notary system.	[4]
PART - B		
	$5 \times 8 \text{ Marks} = 40$	
2.	Explain the categories of building blocks in the UML.  OR	[8]
3.	Explain the software development life cycle of UML.	[8]
4.a)	What is the use of forward engineering and reverse engineering UML diagrams?	
b)	Explain the common mechanism of UML.  OR	[4+4]
5.a)	Draw an object diagram for a school management system.	
b)	What is mean by classifier? Explain various types of classifier.	[4+4]
6.	What is meant by message sequencing? Discuss its importance and also explain how it	
	will be done when active objects are involved in an object interaction diagram.  OR	[8]
7.a)	Differentiate between collaboration and sequence diagrams.	
b)	Write a short notes on forking and joining.	[4+4]

Explain history states.

b) How do you model an operation? Explain with an example.

9.a) Enumerate the steps to model the lifetime of an object.

Discuss about state chart diagrams. b) [4+4]

10. Draw the behavioral diagrams for unified library application and explain them briefly.[8]

Discuss about frameworks.

b) Explain in detail about test and deployment. [4+4]



8.a)