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Code No: 813AN

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. Part B 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)	Explain the importance of modeling.	[4]
b)	Enumerate the steps to model the vocabulary of a system.	[4]
c)	Explain use case diagram with an example.	[4]
d)	What are the characteristics of component diagrams?	[4]
e)	Who are the actors involved in the library system?	[4]

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	PART - B	
	$5 \times 8 \text{ Ms}$	arks =
2.	Explain the categories of building blocks in the UML.	[8]
	OR	
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.	[4+4]
	OCOR	
5.a)	Draw an object diagram for a school management system.	
b)	What is mean by classifier? Explain various types of classifier.	[4+4]

- What is meant by message sequencing? Discuss its importance and also explain how it 6. will be done when active objects are involved in an object interaction diagram. [8]

- Differentiate between collaboration and sequence diagrams. 7.a)
 - Write a short notes on forking and joining. **b**)

[4+4]

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- Explain history states. 8.a)
 - How do you model an operation? Explain with an example. b)

[4+4]

- Enumerate the steps to model the lifetime of an object. 9.a)
 - b) Discuss about state chart diagrams.

[4+4]

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

- Discuss about frameworks. 11.a)
 - b) Explain in detail about test and deployment.

[4+4]