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Code No: 843AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, April/May - 2019
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Time: 3hrs **Max.Marks:75**

Note: This question contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

1.a)	What is the importance of modeling?	[5]
b)	Enumerate the steps to model new building blocks.	[5]
c)	Draw an activity diagram for school information system.	[5]
d)	Differentiate between classes and components.	[5]
e)	Briefly explain about sequence diagram of unified Library application.	[5]

PART - B

5 × 10 Marks = 50

2.	Explain in detail about building blocks in UML.	[10]
	OR	
3.a)	Explain about the principles of modeling.	
b)	Explain about the architecture of UML.	[5+5]
4.a)	Explain the common mechanisms UML.	
b)	Enumerate the steps to model complex views.	[5+5]
	OR	
5.a)	Draw an object diagram for a hospital management system.	
b)	Enumerate the steps to model webs of relationships.	[5+5]
6.	Explain the following. a) Object lifeline. b) Synchronous and asynchronous messages.	[5+5]
	OR	
7.a)	Explain use case diagram with an example.	
b)	Enumerate the steps to model the behavior of an element.	[5+5]
8.	What is an event? Explain different types of events and also explain their modeling in UML.	[10]
	OR	
9.a)	Discuss about history states.	
b)	Briefly explain about state-chart diagrams.	[5+5]
10.a)	Discuss about patterns and frameworks.	
b)	How to model design pattern? Explain.	[5+5]
	OR	
11.	Draw structural diagrams for library application.	[10]

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