

www.FirstRanker.com

www.FirstRanker.com

[10]

Code No: 843AD

11.

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	
$5 \times 5 \text{ Marks} = 25$		
1.a) b) c) d) e)	What is the importance of modeling? Enumerate the steps to model new building blocks. Draw an activity diagram for school information system. Differentiate between classes and components. Briefly explain about sequence diagram of unified Library application.	[5] [5] [5] [5] [5]
PART - B		
2.	$5 \times 10 \text{ Ma}$ Explain in detail about building blocks in UML.	rks = 50 [10]
3.a) b)	Explain about the principles of modeling. Explain about the architecture of UML.	[5+5]
4.a) b)	Explain the common mechanisms UML. Enumerate the steps to model complex views. OR	[5+5]
5.a) b)	Draw an object diagram for a hospital management system. Enumerate the steps to model webs of relationships.	[5+5]
6.	Explain the following. a) Object lifeline. b) Synchronous and asynchronous messages.	[5+5]
7.a)	OR Explain was case diagram with an example	
b)	Explain use case diagram with an example. 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 mo UML.	deling in [10]
OR		
9.a) b)	Discuss about history states. Briefly explain about state-chart diagrams.	[5+5]
10.a) b)	Discuss about patterns and frameworks. How to model design pattern? Explain. OR	[5+5]

Draw structural diagrams for library application.