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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 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)	What is the importance of modeling? Explain.	[4]
b)	What are the stereotypes used in dependency relationship? Explain.	[4]
c)	Distinguish between sequence and collaboration diagrams.	[4]
d)	Describe terms and concepts of collaborations.	[4]
e)	Identify classes in the unified library application.	[4]
PART - B		
$5 \times 8 \text{ Marks} = 40$		
2.a)	Explain common divisions and extensibility mechanisms in the UML.	
b)	What is UML? Where can the UML be used? Explain.	[4+4]
	OR	
3.a)	Draw a neat diagram of SDLC and explain.	
b)	What kinds of relationships are used in the UML? Explain.	[4+4]
4.a)	Explain about modeling new semantics.	
b)	Describe advance concepts of association relationship.	[4+4]
OR		
5.a)	Discuss about modeling different levels of abstraction.	E 4 43
b)	Describe interfaces, types, roles and realization.	[4+4]
6.a)	Explain about modeling a flow of control.	. 1
b)		
	two-party phone call.	[4+4]
OR		
7.a)	Explain the following: i) Usecases and actors ii) Scenarios	
b)	Discuss about modeling the requirements of a system.	[4+4]
b)	Discuss about modeling the requirements of a system.	[4+4]
8.	Write and explain terms and concepts of events and signals.	[8]
	OR	[-]
9.a)	Explain about modeling lifetime of an object.	
b)	Describe modeling source code with example.	[4+4]
,		
10.	Explain in detail about patterns and frameworks.	[8]
	OR	

Draw usecase, activity and statechart diagrams for unified library application.