Hall Ticket No	Question Paper Code: ACS015
(Autonomous)	GINEERING
B.Tech VI Semester End Examinations (Regular) - May, 2019	
OBJECT ORIENTED ANALYSIS AND DESIGN PATTERNS	

Time: 3 Hours

(CSE)

Max Marks: 70

Answer ONE Question from each Unit All Questions Carry Equal Marks All parts of the question must be answered in one place only

$\mathbf{UNIT} - \mathbf{I}$

1.	(a) Define architecture? Explain about software architecture in Unified Modeling Language	e(UML)?
		[7M]
	(b) Define a model? Enumerate the steps to model the vocabulary of a system.	[7M]
2.	(a) Define UML? State and explain the common mechanisms in the UML.	
		[7M]
	(b) Define abstraction? Enumerate the steps to model different levels of abstraction.	r1
		[7M]

$\mathbf{UNIT}-\mathbf{II}$

3.	(a) What is use case diagram? Draw the use case diagram for "Credit Card Validation System".[7M	
	(b) Write short notes on class diagram? Draw the class diagram for hospital management sy	rstem.
		[7M]
4.	(a) Define activity? Explain about common modelling techniques for activity diagram.	[7M]
	(b) Explain in detail about different types of relations, interfaces, types, roles and packages.	[7M]
	$\mathbf{UNIT} - \mathbf{III}$	
5.	(a) Differentiate between component and node. Draw the component diagram for ATM appl	ication.
		[7M]
	(b) Explain the following with examples. i) History States ii) Time and Space	[7M]

6.	(a) What is an event? What are different types of events?	[7M]
	(b) Define exception. Enumerate the steps to modeling the exceptions?	[7M]

$\mathbf{UNIT}-\mathbf{IV}$

7.	(a) Differentiate low coupling and high cohesion with suitable examples.	[7M]
	(b) Explain about GRASP? Explain the design patterns and the principles used in it.	[7M]
8.	(a) Write short note on adapter, singleton, factory and observer patterns.	[7M]

(b) Discuss in detail about creator and information expert with suitable example.

[7M]

$\mathbf{UNIT}-\mathbf{V}$

9.	(a) Discuss in detail about "Relating Use Cases" with suitable examples.	[7M]
	(b) Decribe the inception in modeling and explain defferent steps involved in inception.	[7M]
10.	(a) Describe logical architecture and UML package diagram.(b) Define the use of extend and generalization with suitable examples	[7M] [7M]

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