

Code No: R41052 $\,$ R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, Oct/Nov - 2018

UML AND DESIGN PATTERNS

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 75

Answer any Five Questions All Questions carry equal marks

1	a)	for modeling systems? Explain.	[8]
	b)	Explain in detail about various phases of Unified Software Development Process.	[7]
2	a) b)	Explain in detail about the types of relationships in UML modeling. What is an UML object diagram? Explain with an example.	[8] [7]
3	a) b)	Who can be an Actor in Use-case diagram? How do you identify actors in Use case diagrams? Explain about the three kinds of actors in Use case diagrams. What is a State chart diagram? Draw the state chart diagram for Hospital Management System.	[8] [7]
4	a) b)	Draw a neat Component diagram for Online Shopping cart. Explain the common modeling techniques for Component diagram.	[8] [7]
5	a) b)	What is meant by Design Pattern? Give a brief on the significant goals of Design Patterns? How design patterns solve the challenges lying in applying reusable software? Explain.	[8] [7]
6	a) b)	Discuss various implementation issues in builder design patterns. Write the motivation of Abstract Factory and its applications.	[8] [7]
7	a) b)	What are the intent, motivation and applicability of adapter patterns? What is the intent of Façade pattern? Discuss motivation and applicability of Façade pattern.	[8] [7]
8	a) b)	Discuss in detail about the intent and motivation of Interpreter design pattern with an example. Discuss benefits and drawbacks of the Strategy pattern.	[8] [7]