USN

Fifth Semester MCA Degree Examination, June/July 2015 Object Oriented Modeling and Design Patterns

Time: 3 hrs. Max. Marks: 100

Time. 5 ms.		arks.100
Note: Answer any FIVE full questions.		
1	a. What are Object Oriented themes?b. What are the purposes served by model?c. Define the following with an example for each:	(06 Marks) (04 Marks)
	i) Class ii) Bags & Sequences iii) Association class iv) associations.	Qualified (10 Marks)
2	a. Define and differentiate between Association, Aggregation and Composition appropriate example.b. With the necessary diagram, explain the behaviour of state diagram.	along with (10 Marks) (10 Marks)
3	a. Explain synchronization of concurrent activities, with an example.b. Explain components of activity diagram along, with a neat diagram.	(08 Marks) (12 Marks)
4	a. Explain advanced use case relationships, with appropriate example.b. How do you eliminate unnecessary and incorrect attributes while constructing do model?	(10 Marks) main class (10 Marks)
5	 a. Explain briefly steps in constructing application model. b. Write a note on : i) Batch Transformation ii) Continuous Transformation. 	(10 Marks) (10 Marks)
6	a. Briefly explain how you bridge gap from high level requirement to low – level ser	vices.
	b. Why tuning of tuning of classes required? What are the different possibilities in same?	(08 Marks) doing the (08 Marks)
	c. Differentiate between reverse engineering and forward engineering.	(04 Marks)
7	a. What is a Pattern? Explain properties of pattern for software architecture.b. Explain structure and dynamics of command pattern.	(10 Marks) (10 Marks)
8	a. Explain structure and dynamics of Forwarder – Receiver design pattern.b. What are Idioms? Explain counted pointer Idiom in detail.	(10 Marks) (10 Marks)