

Object Oriented Modeling And Design With Uml Solution Pdf Download

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MCA SEN-IV

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Object Oriented Modelling & Design USING UML [Total Marks : 100 (3 Hours)

N.B. (1) Question No. 1 is compulsory.

- (2) Attempt any four from the remaining six questions.
- (3) List all the assumptions properly.

1. (a) Draw a class diagram to describe undirected graphs. An undirected graph consists 8 of a set of edges and a set of vertices. Edges connect pair of vertices.

- (b) What do you mean by the following and how do you depict them in class diagrams : 12
 - (i) Actor classes (iii) Constraints
 - (ii) Abstract Classes (iv) Stereotypes.

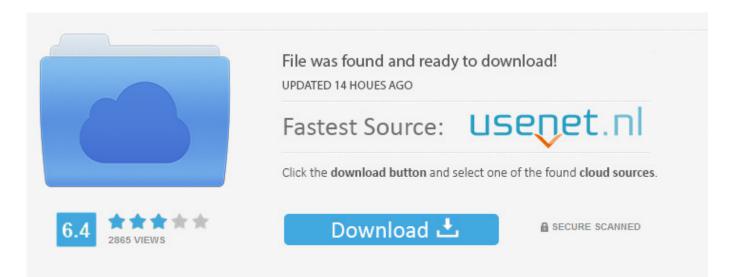
2. (a) What are the benefits of Object Oriented Methodology?

- (b) What are Activity Diagrams ? Explain with help of an example. How do you 12 depict the following in activity diagrams :--
 - (i) Parallel Activities
 - (ii) Design Refinement.
- 3. (a) What are the different Interaction Diagrams ? What is the difference in the 10 information conveyed by both of them ? Explain with an example.
 - (b) What do you understand by cohesion and coupling ? What role do they play in 10 making class diagrams more flexible ?
- 4. (a) What are the three approaches to identify classes ? Discuss advantages and 10 disadvantages of each.
 - (b) A simple digital watch has a display and two buttons to set it, the A button and 10 the B button. The watch has two modes of operation, display time and set time. In the display time mode, hours and minutes are displayed. The set time has two sub-modes, set hours and set minutes. The A button is used to select modes. Each time it is pressed, the mode advances in sequence : display, set hours, set minutes, display, etc. Within the sub-modes, the B button is used to advance the hours or minutes once each time it is pressed. Buttons must be released before they can generate another event. Prepare a state diagram of the watch.

5.	(a)	Explain the following with respect to state transition diagram :	10
		(i) Event	
		(ii) State	
		(iii) Transition	
		(iv) Composite state	
		(v) Parallel states.	
	(b)	Explain the bottom-up approach to develop dynamic diagrams.	10
6.	(a)	What is object synchronization ? Explain.	8
	(b)	Explain reuse of Framework with respect to white box framework and black box framework.	12
7.	(a)	Describe architectural patterns and design patterns.	12
	(b)	Explain what are Extension Mechanisms used in UML.	8

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