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BICSE-005

98800

DCSVI

Term-End Examination June, 2013

BICSE-005: OBJECT MODELING AND DESIGN

Time: 2 hours Maximum Marks: 70

Note: Attempt any five questions. Question No. 1 is Compulsory. Each question carry equal marks.

- (a) Class diagram at conceptual level should include: 7x2=14
 - (i) Attributes only
 - (ii) Operations only
 - (iii) Both Attributes and operations
 - (iv) None of above
 - (b) Constraints can be represented in UML by:
 - (i) [text string]
 - (ii) {text string}
 - (iii) Notes
 - (iv) Constraint
 - (c) Which of the following is not a UML level of visibility?
 - (i) Private (ii) Protected
 - (iii) Public (iv) Persistent

Which diagram depicts how object (d) collaborate in message sequence to satisfy the functionality of a use case? (i) State (ii) Component (iii) Sequence (iv) Deployment (e) Attribute and methods that are visible from any method in any class are said to be: (i) Private (ii) Protected (iii) Public (iv) None of above (f) A dependency relationship is illustrated with a dashed arrow line (True / False) Two goals of object - oriented design are (g) high coupling and low cohesion (True / False) (a) Define Object Oriented Modeling (OOM). 7 Describe various steps involved in OOM process. (b) Describe unified software development life 7 cycle. (a) Differentiate between abstract class and 7 interface. (b) Draw a class diagram for a hypothetical 7 system for college canteen. Make suitable assumptions. (a) Describe activity diagram with various 7

(b)

2.

3.

4.

Draw an activity diagram for Hospital

7

terms and concepts.

Management System.

What do you understand by architectural 7 5. (a) Modeling? Explain its various concepts and diagram with the help of suitable example. Define use case diagram and discuss their (b) 7 utility in system design with the help of suitable example. 7 6. (a) Describe components. How are they used? (b) Describe deployment diagram in brief and draw deployment diagram for library 7 management system. 7. (a) Explain interaction diagram and its 7 classification with diagram. (b) Describe Generalization and specialization 7 in brief with the help of diagram. Write short notes on the following (any four): 8. 3.5x4=14(a) Event and Signals. (b) State Machines (c) State chart diagram Package diagram (d) Modelling techniques (e) (f) Processes and threads