DCSVI

Term-End Examination

December, 2012

BICSE-005 : OBJECT MODELING AND DESIGN

Time : 2 hours   *Maximum Marks : 70*

Note :   Attempt **any five** questions.

Question No. 1 is **mandatory**.

1.   State T/F :   2x7=14

(a)   The use of UML guarantees that the targeted system conforms to object oriented principles.

(b)   Activity diagram can be used to depict work flow for a particular business activity.

(c)   A use case must be initiated by an actor.

(d)   Multiple classification is similar to multiple inheritance.

(e)   Aggregation is a special kind of Association.

(f)   Package dependency and class dependency are not the same.

(g)   State machine diagram is a behavioural modeling diagram.

2.   How is object oriented modeling differs from   **14** procedure oriented ? Explain with example.

3. (a) Explain different relationships used in class diagram with example. 7x2=14

   (b) Differentiate between aggregation and composition in class diagram and explain them with the help of diagram.

4. (a) Demonstrate the significance of package diagram in structural modeling with example. 7x2=14

   (b) Explain visibility modes of class diagram with example.

5. (a) Explain the concept of swim lanes in activity diagram with example. 7x2=14

   (b) Draw a use case diagram for the working of an ATM machine.

6. (a) Draw a state machine diagram for the working of a coffee machine. 7x2=14

   (b) Define event and describe its various classifications.

7. (a) Draw a deployment diagram representing nodes and artifacts. 7x2=14

   (b) Describe component diagram in detail with the help of diagram.

8. Write short notes on following : (*any* 4) 3.5x4=14
   (a) Principle of modeling
   (b) Stereotypes
   (c) Collaboration Diagram
   (d) Active class
   (e) UML features
   (f) Bidirectional Association

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