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BICSE-005

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DCSVI

Term-End Examination

June, 2012

BICSE-005 : OBJECT MODELING AND DESIGN

Time : 2 hours *Maximum Marks : 70*

Note : *Attempt **five** questions, Question No 1 is **mandatory**.*

1. (a) Which diagram will represent the physical relationship between software components and the hardware in the delivered system. **7x2=14**

(i) Component diagram

(ii) Deployment diagram

(iii) Class diagram

(iv) Network diagram

(b) State True/False (T/F)

UML interfaces can be used to specify required services for type of objects.

(c) State T/F

The stereotype {frozen} indicates that the UML element cannot be changed.

(d) State T/F

When ( ) and after ( ) are valid events in a state diagram.

(e) State T/F

Knowing UML means one can handle object oriented analysis and design.

(f) Constraints can be represented in UML by :

(i) [text string]

(ii) {text string}

(iii) notes

(iv) constraint

(g) Which is not a valid relationship in Use Case Diagram ?

(i) include

(ii) extract

(iii) extend

(iv) generalization

2. Explain the conceptual model of UML and its modeling classification. **14**

3. (a) Class diagrams are used for structural modelling. Justify the statement with an example. **7x2=14**

(b) Differentiate between abstract class and interface. Also represent them with the help of a class diagrams

4. (a) Explain the concept of object diagrams with example. **7x2=14**

(b) Explain multiplicity concept of class diagram with example.

5. (a) Explain interaction diagram and its classification with diagram. **7x2=14**

(b) Draw an activity diagram for student admission process in an university.

6. (a) What is a super state in state machine diagram ? Explain with example. **7x2=14**

(b) Explain the significance of time signal with diagram.

7. (a) Explain deployment diagram with example.

(b) Describe the principles of package diagram that decides which class will go in same package. **7x2=14**

8. Write short notes on the following : (*any 4*) **3½x4=14**

(a) Importance of modelling

(b) Tagged value

(c) Package Diagram

(d) Level of use case

(e) History Pseudostate

(f) SDLC