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BICSE-005

**DIPLOMA – VIEP – COMPUTER SCIENCE AND
ENGINEERING (DCSVI)**

Term-End Examination

June, 2015

00654

BICSE-005 : OBJECT MODELING AND DESIGN

Time : 2 hours

Maximum Marks : 70

Note : Answer any *seven* questions. All questions carry equal marks.

1. What do you mean by modeling ? Explain some important principles of modeling in detail. 10
2. What is software ? Explain any two software development life cycle models in detail. 10
3. Explain the concept of classes and relationship with respect to structural modeling. 10
4. What is package ? Explain the different types of packages available for UML modeling. 10
5. Explain use case diagram with the help of an example. Also explain extend and include in use cases. 10

6. What is class ? How do you represent private, public and protected in class diagrams ? 10
7. What are the different views that are considered when building an object-oriented software system ? Explain briefly. 10
8. Discuss the designing procedure to design real-time and embedded systems by using UML modeling. 10
9. Discuss Unified Library application in respect to your case study. 10
10. Write short notes on the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Actors in UML
 - (b) Object Oriented Modeling
 - (c) Event and Signals in Behavioural Modeling
 - (d) State Chart Diagram
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