

**DIPLOMA VIEP COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination

June, 2013

**BICS-035 : JAVA BASIC AND OBJECT MODELING
DESIGN**

Time : 2 hours

Maximum Marks : 70

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

1. (a) Distinguish between dynamic binding and message passing with example. **7x2=14**
(b) Explain static members with example.
(c) What are virtual function ? Explain with an example.
(d) Differentiate between compile time and run time errors with example.
(e) Define candidate key.
(f) State T/F
Class diagram is used for dynamic modeling.
(g) State T/F
Multiplicity is used in state chart diagram
2. (a) Differentiate between multiple and hierarchical inheritance with diagram. **2x7=14**
(b) Explain the mechanism of exception handling with an example.

3. Explain the steps to draw Use Case Diagram. 14
Illustrate these steps for Result Management System. Also brief various dependencies in diagram.
4. (a) Discuss the unified software development life cycle. 2x7=14
(b) Define class diagram by taking one example.
5. (a) Explain the principle advantages of object oriented programming. 7
(b) Define following : 2x3.5=7
(i) Friend Function
(ii) Packages in Java
6. Define package diagram with example. Also differentiate between object diagram and class diagram. 14
7. With the help of swimlanes, draw an activity diagram for the admission process of a student in college. 14
8. Write short notes on following (any 4) : 4x3.5=14
(a) Polymorphism and its classification
(b) Abstract class and Interface
(c) Functional modeling
(d) Deployment diagram
(e) Principles of modeling
(f) Concept of Active class
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