**BRAHMA VALLEY COLLEGE OF TECHNICAL EDUCATION**

**Preliminary Exam**

# Course Name: Computer/ Information Technology Group Semester: 6(E) Marks: 100

Subject: **OOMD (12260)** Date: - **10/3/2014** Time: **9.30 am To 12.30 pm**

**Q.1.a) Attempt any THREE of the following: MARKS 12**

1. Describe CRC Card method By Cunningham.
2. Give importance of modeling.
3. Explain the following terms:
   1. Class 2) Object 3) Aggregation 4) Multiple inheritance.
4. What is object diagram? Explain with suitable example.

**b) Attempt any ONE of the following: MARKS 6**

1. Explain the generalization and association with suitable example and corresponding class diagram.
2. List the modeling techniques used in OMT. Explain the purpose of Object, Dynamic and Functional modeling.

**Q.2. Attempt any TWO of the following: MARKS 16**

1. Explain the following with suitable example and diagrams.
   * 1. Link and multiplicity. ii) Abstract classes.
2. Explain unified software development life cycle.
3. Draw Sequence diagram for telephone (Landline) dialing and Explain consider all possible states.

**Q.3. Attempt any FOUR of the following: MARKS 16**

1. Describe multiplicity with suitable example.
2. Draw use case diagram for railway reservation system.
3. Explain Branching in activity diagram.
4. Explain candidate key with suitable example.
5. Describe dynamic and functional modeling.

**Q.4.a) Attempt any THREE of the following: MARKS 12**

1. What is Meta data? Give its examples.
2. How to apply constraints in class diagram.
3. Explain the relationships in UML diagrams.
4. Draw the symbols used in deployment diagram and state use of it.

**b) Attempt any ONE of the following: MARKS 6**

1. Draw and explain a class diagram of a hospital management.

2. Explain the things in UML modeling.

**Q.5. Attempt any TWO of the following: MARKS 16**

1. Explain sequence diagram. Differentiate between sequence and collaboration system.
2. Define and explain packages with one suitable example.
3. Describe Architectural Met model.

**Q.6. Attempt any FOUR of the following: MARKS 16**

1. Explain recursive aggregation with suitable example.
2. Explain the things in UML modeling.
3. Define interface with suitable example and explain its importance.
4. Draw activity diagram for withdrawing money from bank through cheque.
5. Explain collaboration diagram with suitable example.