

TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT

Office of the Dean

March - April 2017

Full Marks: 40

Time: 2 hrs.

BIM / Seventh Semester / IT 227: Object Oriented Analysis and Design

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

1. Brief Answer Questions:

[10 × 1 = 10]

- i. What is class diagram?
- ii. List the characteristics of unified process.
- iii. Define actor in use case diagram.
- iv. What are the types of interaction diagram?
- v. What is dynamic model?
- vi. Define a conceptual class.
- vii. When an aggregation is said to be composite aggregation?
- viii. What is activity diagram?
- ix. List any two types of common association.
- x. What is observer pattern?

Group "B"

Exercise Problems:

[5 × 4 = 20]

2. Describe any two phases of unified process.
3. Describe singleton pattern with a simple code.
4. Explain information expert pattern with example.
5. Explain sequence diagram with example.
6. How can be Use Cases related? Describe.

Group "C"

Comprehensive Questions:

[2 × 5 = 10]

7. Explain the different components of GRASP design pattern.
8. There are three different classes: rectangle, square, circle; shapefactory class creates any one of these three mentioned classes as per requirement. Now write full program to demonstrate shapefactory class.

