

**Tribhuvan University**  
**Institute of Science and Technology**  
**Bachelor of Computer Science and Information Technology**  
**Semester: Sixth**  
**Course: Software Engineering**  
**Course No.: CSC-351**

**Model Question Paper**

**Full Marks: 60**

**Pass Marks: 24**

**Attempt 10 questions only.**

1. What is software engineering? Justify its importance.
2. Describe spiral model with its advantages?
3. What is risk in software development? List out the steps of risk management?
4. What is requirement engineering? Describe about requirement engineering process?
5. What is rapid prototyping technique?
6. Define repository model with example?
7. Prepare Use CASE diagram for ATM system?
8. Define V (Validation) and V (Verification) model for software testing?
9. Compare and contrast about white box and black box testing?
10. What is cost estimation? How cost can be estimated using COCOMO model?
11. Differentiate between forward and reverse engineering?
12. Write sort notes on any two:
  - a) System Engineering
  - b) Reliability Validation
  - c) Functional Vs. Non-Functional Requirements