# Tribhuvan University
# Institute of Science and Technology

## 2069

Bachelor Level/ First Year/ First Semester/ Science                     Full Marks: 60

**Computer Science and Information Technology  (CSc. 351)**      Pass Marks: 24

(Software Engineering)

*Candidates are required to give their answers in their own words as for as practicable.*
The figures in the margin indicate full marks.

Attempt any ten questions                                                            (10x6=60)

1.  Explain the software and its characteristics.
2.  Explain the prototyping model of software development.
3.  Define the COCOMO model with example.
4.  Why an evolutionary prototyping is used in software development? Explain.
5.  What do you mean by behavioral specification?
6.  Why modular decomposition is used in architectural design? Explain.
7.  Explain the sequence diagram with example.
8.  Explain the clean room software development with example.
9.  What are the types of software testing? Explain.
10.   Explain the reliability validation with example.
11.   What is USE CASE diagram? Explain with example.
12.   Write short notes on (any two):-
    a)   User Interface Prototyping
    b)   Software Inspection
    c)   Source Code Translation