Tribhuvan University
Institute of Science and Technology

2068 (I)

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. Differentiate between software process and software process model.
2. What are the key challenges facing in Software Engineering? Explain.
3. Explain the system design process.
4. Why program are developed using evolutionary development are likely to be difficult to maintain? Explain.
5. What is the critical distinction between a milestone and deliverable? Explain.
6. Why elicitation and analysis is a difficult process in requirement engineering process? Explain.
7. Explain the rapid prototyping techniques with example.
8. What do you mean by formal specification? Explain.
9. Explain the control models and its types.
10. Explain the use case diagram with example.
11. Explain the verification and validation planning.
12. Write short notes on (any two):
    a. Data flow models
    b. COCOMO model
    c. Security assessment