

**Tribhuvan University
Institute of Science and Technology**

2073

Bachelor Level/ First Year/ First Semester/ Science
Computer Science and Information Technology (CSc. 351)
(Software Engineering)

Full Marks: 60
Pass Marks: 24

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

Attempt any ten questions

(10x6=60)

1. What is the difference between software and software engineering? What are the characteristics of good software? Explain.
2. What are the major phases in the waterfall model and spiral model? What are the advantages of spiral model? Explain.
3. What are the major tasks of requirement engineering activity? Explain.
4. Explain the concept of incremental model with example.
5. What is the need of feasibility study? Explain the various type of feasibility study with example.
6. What are the different types of requirement elicitation techniques? Explain in brief.
7. What is software requirement specification? Mention the principle characteristics of SRS.
8. How software inspection improves software quality? Explain the software inspection process in brief.
9. What is software quality assurance? What are the various quality concepts of SQA?
10. What is software design? Explain the various principles and design concepts of software design.
11. Difference between verification and validation.
12. Write short notes on (any two) :
 - a.) DFD
 - b.) Data Dictionary
 - c.) Estimation Technique