

**Tribhuvan University
Institute of Science and Technology**

2071

Bachelor Level/ First Year/ First Semester/ Science
Computer Science and Information Technology (CSc. 252)
(System Analysis And Design)

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.

Group A

Long Answer Questions:

Attempt any two: (2x10=20)

1. What do you mean by information system? Explain the types of information system with its applications.
2. What are the different steps of system development life cycle? What is the outcome of each step? Explain.
3. Explain the various types of cost benefit analysis? What are the goal and design of cost/benefit analysis? Explain.

Group B

Short Answer Questions:

Attempt any eight: (8x5=40)

4. Explain the case tools with its applications.
5. Why do we need structured methodology? Explain.
6. Explain the steps of information gathering with example.
7. What are the tools for structured analysis? Explain with example.
8. Differentiate between decision table and decision tree.
9. What are the major difference between analysis and design? Explain.
10. What do you mean by normalization? Explain.
11. Explain various types of system testing with example.
12. Explain the process of Software manufacturing.
13. Differentiate object modeling and dynamic modeling.
14. Explain the Unified Modeling Language (UML) with example.