

Tribhuvan University
Institute of Science and Technology
2079



Bachelor Level / Third Year /Fifth Semester/Science
Computer Science and Information Technology (CSC315)
(System Analysis and Design)
NEW COURSE

Full Marks: 60
Pass Marks: 24
Time: 3 hours.

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

Section A

Attempt any TWO questions.

1.

(2×10=20)

- ✓ 1. Differentiate between black box and white box testing. Explain different stages of testing. (3+7)
- ✓ 2. Why do we use DFD? Draw context diagram and data flow diagrams of a retail clothing store in a mall that sells different cloths to its customers. (2 + 8)
3. Compare structured development with object-oriented development. Explain use case diagram and class diagram with suitable exam ple. (3+3+4)

Section B

Attempt any EIGHT questions.

(8×5=40)

- ✍ 1. Explain common skills of a project manager. Which skill do you think is most important? (4 + 1)
- ✍ 2. Describe the project identification and selection process. (5)
6. List and describe the steps in the project initiation and planning process. (5)
- ✍ 3. Explain Joint Application Design in brief. How is it better than traditional information gathering techniques? (3 + 2)
8. What is conceptual data modeling? Explain conceptual data modeling process. (1.5+3.5)
- ✍ 4. Why do we need normalization? Explain 2NF and 3NF with example. (2 + 3)
- ✍ 5. Compare form with report. Explain the process of designing forms and reports. (1.5+3.5)
- ✍ 6. Define system maintenance. Explain the process of maintaining information systems in brief. (1 + 4)
- ✍ 7. Write short notes on: (2×2.5=5)
 - a. CASE Tool
 - b. Baseline Project Plan