Tribhuvan University Institute of Science and Technology

2068

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

Full Marks: 60 Pass Marks: 24

(System Analysis And Design)

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

Group A Long Answer Questions:

Attempt any two: (2x10=20)

- 1. Explain development methodology used in developing information system in detail with example.
- 2. Explain with example of the linkage between data flow diagram, decision tables and entity relationship diagram.
- 3. Construct a decision tree and a decision table that represents a salesperson's commission. The rules are as follows.
 - a. If fewer than 400 units are sold, than the salesperson's commission is 2% of total sales.
 - b. If between 400 and 499 units are sold, than the salesperson's commission is 3% Of total sales.
 - c. If 500 or more units are sold, and the salesperson has been with the company more than one year, than the salesperson's commission is 5% of total sales.
 - d. If 500 or more units are sold, and the salesperson has been employed by the firm for one year or less, than his/her commissions 4% of total sales.

Group B

Short Answer Questions:

Attempt any eight: (8x5=40)

- 4. What do you mean by JAD?
- 5. Why are good interpersonal communications skills essential for system analysts?
- 6. What are the roles of CASE in data modeling?
- 7. Explain the steps in feasibility analysts.
- 8. Explain the payback period with example.
- 9. Explain file organization with example.
- 10. What are the process for designing forms and reports?
- 11. Differentiate between system documentation and user documentation.
- 12. Explain the types of maintenance.
- 13. Explain the Unified Modeling Language(UML) with example.