

Tribhuvan University
Institute of Science and Technology
2074

Bachelor Level / Fourth Year /Eight Semester/Science
Computer Science and Information Technology-(CSc.460)
(Decision Support System)

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.

Attempt any ten questions.

(10x6=60)

1. Define DSS. Why do we need computerized decision support and the supporting technologies?
2. **What** is design phase of decision making? Discuss.
3. List major characteristics and capabilities of DSS.
4. What is model base management? Discuss desirable capabilities of model base management system.
5. **What** is data warehouse? How is it different from data mart?
6. Why the traditional SDLC an inappropriate methodology for developing most DSS.
7. Discuss different approaches to knowledge management in detail.
8. **What** is expert system? Discuss different applications of expert system.
9. **What** is the role of knowledge base validation and verification in knowledge acquisition?
10. Define cross over and mutation operations in genetic algorithm. Explain their role.
11. Discuss the characteristics of intelligent agents.
12. **Write short notes on:**
 - a. Human cognition
 - b. Fuzzy logic