

Tribhuvan University
Institute of Science and Technology
2082
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Bachelor Level / Fourth Year / Eighth Semester/ Science
Computer Science and Information Technology (CSC469)
(Decision Support System and Expert System)
(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

Long answer questions

Attempt any Two questions

(2 × 10 = 20)

1. List the features of good decision. How do you make good decision? Describe about decision making process. [2 + 3 + 5]
2. What are the guidelines of dialog and UI design? Explain the architecture of DSS. [4 + 6]
3. How do you evaluate DSS project? Differentiate between knowledge driven and model driven decision support system. [3 + 7]

Section B

Short answer questions

Attempt any Eight questions

(8 × 5 = 40)

4. Describe the features of expert system. [5]
5. Why do we need fuzzy expert system? Explain. [5]
6. Distinguish between decision support system and transaction processing system. [5]
7. Explain the process for improving security for decision support systems. [5]
8. How do you build web based decision support system? [5]
9. What are the advantages and disadvantages of expert system? Explain. [5]
10. List some characteristics of fuzzy inference system. Define fuzzification and defuzzification. [2.5 + 2.5]
11. How to avoid common errors in expert systems? [5]
12. Describe the process of generating fuzzy rules. [5]