D 4107

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2008.

Eighth Semester

Computer Science and Engineering

CS 1022 — KNOWLEDGE BASED DECISION SUPPORT SYSTEMS

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List and define the phases of the decision making process.

2. Why do decision makers use heuristics?

3. What types of support are provided by DSS?

4. Define a data mart.

5. What is the primary goal of knowledge management?

6. What is machine learning?

7. What is an Expert System?

8. List any two applications of genetic algorithms.

9. What is the difference between functional and physical integration?

10. List the major ethical issues related to Management Support Systems.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the framework for decision support. (8)

(ii) Explain the decision making or modeling process. (8)

Or

(b) (i) Discuss the various types of computerized support. (8)

(ii) Compare and contrast decision making by an individual with decision making by a group. (8)

12. (a) (i) List the characteristics of different classes of decision support systems. (10)

(ii) List the major trends in DSS. (6)

Or

(b) (i) What is a Data ware house? Explain with an example. (8)

(ii) Compare EIS with DSS. (8)

13. (a) (i) Describe the link between data, information and knowledge. (8)

(ii) List the types of knowledge to be represented in the knowledge base. (8)

Or

(b) (i) Describe the different methods of knowledge acquisition. (10)

(ii) Discuss the major tasks performed by knowledge engineers. (6)

14. (a) List out the steps involved in expert system development and explain each step with suitable example.

Or

(b) (i) What are the benefits and limitations of neural networks. (8)

(ii) What is fuzzy logic? Explain. (8)

15. (a) List several measures for evaluating the success of expert systems.

Or

(b) List some design issues that may arise during Management Support System integration.

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