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**V 4115**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Eighth Semester

Computer Science and Engineering

CS 1022 — KNOWLEDGE BASED DECISION SUPPORT SYSTEMS

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

PART A — (10 × 2 = 20 marks)

1. Define the terms 'Intelligence' and 'Decision Support Systems'.
2. Distinguish between open and closed systems. Give an example of each.
3. Write the advantages of prototyping.
4. Define 'Supply Chain Management'.
5. What is meant by knowledge acquisition?
6. Distinguish between knowledge base and database.
7. Write the applications of Baye's theorem.
8. What is meant by 'Inference'?
9. List the privacy issues and explain briefly.
10. How is internet communication useful for management support systems?

PART B — (5 × 16 = 80 marks)

11. (a) State and explain the phases of decision making.

Or

- (b) Explain the characteristics, capabilities and components of decision support systems.

12. (a) How will you build a data warehouse? State and explain the OLAP queries and multidimensional analysis.

Or

- (b) (i) Explain the ERP systems. (8)

- (ii) Write the steps involved in SCM and explain them. (8)

13. (a) How will you apply the machine learning techniques to knowledge management?

Or

- (b) Explain the knowledge representation using rules, logic and semantic networks.

14. (a) State and explain the various inference techniques used in intelligent systems.

Or

- (b) What is uncertainty? How will you represent it and perform reasoning with uncertainty?

15. (a) Explain the techniques used for integrating different management support systems.

Or

- (b) Describe the impacts of management support systems in various areas and issues.

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