

IV B.Tech II Semester Regular Examinations, Apr/May 2006
DECISION SUPPORT SYSTEMS
(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. List the stages of Kepner - Tregoe decision making process and describe each in a line or two with the help of flowchart. [16]
2. (a) What are the fundamental operations involved in turning data into information?
(b) Give an example for the difference between the data and information. [8+8]
3. (a) Explain client / server computing with help of client / server network diagram.
(b) Explain the advantages and disadvantages of client / server computing in DSS. [8+8]
4. (a) Explain the principles used in modeling
(b) Explain dynamic physical model and static mathematical model with an example. [8+8]
5. Write a General Purpose Systems Simulation (GPSS) program for a manufacturing shop. [16]
6. State at least ten advantages of expert system over human decision makers, and five disadvantages they have versus human decision maker. [16]
7. (a) Describe four kinds of data that data warehouse use.
(b) List the stages involved in getting a data into data warehouse and explain each stage. [8+8]
8. What is the job of the project leader and describe any two types of charts that project managers / leader use? [16]

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1. Explain the following. [16]
 - (a) Kepner Tregoe decision-making method
 - (b) Human decision-making process
2. (a) Define a system? What are the key characteristics of a system?
(b) How information system differ from a system in general? [8+8]
3. (a) Explain the advantages and disadvantages of stand-alone DSS.
(b) Advantages and disadvantages of central corporate computing DSS. [8+8]
4. Explain the following with an example. [16]
 - (a) System
 - (b) Entity
 - (c) Attribute
 - (d) Activity
 - (e) State of System
5. (a) What is group decision support system? Why the GDSS become important?
(b) What is media richness? Why it is important to the design of group DSS? [8+8]
6. Explain the following terms : [16]
 - (a) Meta data.
 - (b) OLAP.
 - (c) Data mining.
 - (d) Data mart.
7. Explain the following : [16]
 - (a) Relational database structure
 - (b) Multidimensional database structure.
8. What is the job of the project leader and describe any two types of charts that project managers / leader use? [16]

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1. (a) Define the three elements of a decision.
(b) Describe the phases that every decision goes through. [8+8]
2. Explain decision-making system incorporating DSS as component. [16]
3. (a) Give eight factors that a DSS architecture must take into account.
(b) Draw the block diagrams for conceptual DSS and specific DSS architectures. [8+8]
4. (a) Explain the stages of systems development life cycle (SDLC) approach.
(b) What ethical factors might constrain the type of information to be stored in a DSS database? [8+8]
5. Draw the McGraths diagram and explain various types of tasks. [16]
6. Consider a simple expert system that can follow three rules:
 - (a) Rule 1) If order can be satisfied within a normal work schedule, then the factory should operate 40 Hours next week.
 - (b) Rule 2) If order cannot satisfied within a normal work schedule and overtime has not been scheduled, then schedule overtime work.
 - (c) Rule 3) If order cannot satisfied within a normal work schedule and overtime has been scheduled, then notify customers that order will be delayed. Develop VP-Expert form of simple knowledge base. [16]
7. (a) Describe four kinds of data that data warehouse use.
(b) List the stages involved in getting a data into data warehouse and explain each stage. [8+8]
8. Explain the need of DSS at present and future of DSS. [16]

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1. List the stages of Kepner - Tregoe decision making process and describe each in a line or two with the help of flowchart. [16]
2. (a) Draw the data flow diagram of generic DSS.
(b) What does a data flow diagram shows? [8+8]
3. (a) Explain the characteristics of DSS.
(b) Discuss the three level technology of DSS with block diagram. [8+8]
4. Explain the following with an example. [16]
 - (a) System
 - (b) Entity
 - (c) Attribute
 - (d) Activity
 - (e) State of System
5. (a) What does workflow system do? What are its key characteristics?
(b) What are the three electronic meeting styles and explain each? [8+8]
6. Consider a simple expert system that can follow three rules:
 - (a) Rule 1) If order can be satisfied within a normal work schedule, then the factory should operate 40 Hours next week.
 - (b) Rule 2) If order cannot satisfied within a normal work schedule and overtime has not been scheduled, then schedule overtime work.
 - (c) Rule 3) If order cannot satisfied within a normal work schedule and overtime has been scheduled, then notify customers that order will be delayed. Develop VP-Expert form of simple knowledge base. [16]
7. (a) Describe four kinds of data that data warehouse use.
(b) List the stages involved in getting a data into data warehouse and explain each stage. [8+8]
8. Explain the hints for a data warehousing project success. [8+8]
