Code No: RR420506 **Set No. 1**

IV B.Tech II Semester Regular Examinations, Apr/May 2008
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

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1. (a) What is a Decision Support System?
   (b) What are Seven Characteristics of Decision Support Systems? Explain which are common and which are optional? [8+8]
2. (a) Define a system? What are the key characteristics of a system?
   (b) How information system defer from a system in general? [8+8]
3. What are the major specialized software packages used to assist DSS development and explain each? [16]
4. Explain numerical computation technique for a continuous model with an example. [16]
5. Short notes on [16]
   (a) Media Richness
   (b) E-meeting
6. Define data warehouse and state three characteristics of data warehouse. [16]
7. (a) Explain how a relational database can be organized for a data warehouse.
   (b) Explain the concept of a multi dimensional database and why they are well suited to data warehouse. [8+8]
8. Show how DSS, ES, EIS, GDSS and data warehouse systems relate to each other. [16]

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Code No: RR420506 **Set No. 2**

IV B.Tech II Semester Regular Examinations, Apr/May 2008
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

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1. (a) What is a Decision Support System?
   (b) What are Seven Characteristics of Decision Support Systems? Explain which are common and which are optional? [8+8]

2. (a) What is a model? What are three reasons to use computer models to support decision-making?
   (b) Consider your DSS course as a system. What is its purpose? What are its inputs? Its outputs? Its major processes? [8+8]

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. Draw the cobweb model of a market economy with P_0 = 5.0, A = 10, B = 0.9, C = -2.4, D = 1.2, by considering demand (D) = A B X P (Price) and Supply (S) = C + D X P_{-1}. [16]

5. (a) Describe an electronic meeting system. What types of decision-making tasks might it be useful?
   (b) Explain the technologies of GDSS. [8+8]

6. Define data warehouse and state three characteristics of data warehouse. [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. (a) Describe what the project leader does and what tools he or she uses?
   (b) What is the difference between the tangible and intangible benefits? [8+8]

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Code No: RR420506 **Set No. 3**

IV B.Tech II Semester Regular Examinations, Apr/May 2008
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

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1. Explain the following.
   (a) Kepner - Tregoe decision-making method
   (b) Human decision-making process [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 the DSS software categories based on application and firm size.
   (b) Explain why client / server computing is popular? [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. Write a General Purpose Systems Simulation (GPSS) program for a manufacturing shop. [16]
6. (a) Contrasts the characteristics of people who would use a data warehouse and people who would not need one.
   (b) Define and distinguish EIS and ESS. [8+8]
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 system integration? Explain what are the components. [16]

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Code No: RR420506 **Set No. 4**

IV B.Tech II Semester Regular Examinations, Apr/May 2008
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

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1. Explain the following.
   (a) Kepner - Tregoe decision-making method
   (b) Human decision-making process [16]
2. (a) Define a system? What are the key characteristics of a system?
   (b) How information system defer from a system in general? [8+8]
3. What are the major specialized software packages used to assist DSS development and explain each? [16]
4. Explain the following with an example. [16]
   (a) System
   (b) Entity
   (c) Attribute
   (d) Activity
   (e) State of System
5. (a) Describe an electronic meeting system. What types of decision-making tasks might it be useful?
   (b) Explain the technologies of GDSS. [8+8]
6. What are the inference engine and the workspace of an expert system and explain the importance of each with the help of block diagram. [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. (a) List the various stages of data warehousing project.
   (b) Justify a data warehouse interms of both tangible and intangible benefits. [16]

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