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Roll No. :

322843(22)

APR-MAY 2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(CSE, IT Engg. Branch)

DECISION SUPPORT SYSTEM

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. In each question, part (a) is compulsory. Answer any two from the rest of three ^{parts} questions. The figures in the right hand margin indicate marks.

Unit-I

1. (a) Why knowledge management is important for decision making?

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- (b) Models are classified as strategic, tactical and operational. What is the purpose of such a classification? Give an example for each. 7
- (c) Describe the various components of a DSS with a diagram. 7
- (d) Explain the structure of an expert system and describe the functionality of each module. 7

Unit-II

2. (a) List implications for design of decision making support. 2
- (b) What is the role of communication in DSS? List the various communication issues with example. 7
- (c) Explain the impact of culture on decision making with an example. 7
- (d) What do you mean by Decision Making Support? Explain design of decision making support in detail. 7

Unit-III

3. (a) What is requisite modeling? 2
- (b) What do you mean by Recognition Primed Decision? Explain the process of RPD with a neat diagram. 7

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- (c) What are the important phases of prescriptive analysis? Describe scientific disciplines that comprise prescriptive analysis. 7
- (d) Write short notes on : 7
- (i) Normative analysis
- (ii) Descriptive analysis

Unit-IV

4. (a) What do you mean by belief nets? 2
- (b) What is Simulation? Describe general process of simulation. 7
- (c) What is Model? Explain in detail the various types of OR modeling tools and their benefits. 7
- (d) Explain decision analysis and strategic decision support in detail. 7

Unit-V

5. (a) List various cutting-edge decision support technologies. 2
- (b) Write short notes on : 7
- (i) GDSS
- (ii) Decision Conferencing

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- (c) Explain IDSS tools and applications in detail. 7
- (d) Write short notes on : 7
- (i) Deliberative e-democracy
 - (ii) e-participation