

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 113664

Roll No.

B.TECH.

Theory Examination (Semester-VI) 2015-16

KNOWLEDGE BASED DECISION SUPPORT SYSTEM

Time : 3 Hours

Max. Marks : 100

Note : Attempt questions from all Sections as per directions.

Section-A

Attempt all parts of this section. Answer in brief.

(2×10 = 20)

1. (a) Why are the decisions faster and better?
- (b) List the major components of a decision support system (DSS).
- (c) Define the environment of DSS.
- (d) What are the major types of models used in DSS?

(1)

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- (e) Define open and closed systems with an example of each.
- (f) List the major functions of a model based management system (MBMS).
- (g) What are the key differences between an enterprise information system (EIS) and an executive support system (ESS)?
- (h) Describe the role of internet in management support system (MSS) data management and business intelligence.
- (i) Differentiate between data mining and text mining.
- (j) Define DSS integrated tool with their objective.

Section-B

2. Attempt any five questions from this section.

(10×5 = 50)

- (a) What is meant by decision-making versus problem solving? Compare and determine whether or not it make sense to distinguish them.

(2)

- (b) What is the relationship between environmental analysis and problem identification?
- (c) Compare the normative and descriptive approaches of decision-making.
- (d) Explain how' online analytical processing (OLAP) provides access to powerful models in a spreadsheet structure.
- (e) Explain the differences and similarities among features of the internet, intranets and extranets.
- (f) Compare the features and structure of the model based management system to those of the DBMS.
- (g) How does the iterative process secure more user input than conventional development approaches?
- (h) Explain the methods of agile development and extreme programming.

Section-C

Attempt any two questions from this section. (15×2 = 30)

- 3. Search for a ready-made DSS. What type of industry is its market? Why is it a ready-made DSS?

(3)

4. Provide a list of possible strategic, tactical and operational models for a chemical plant.
5. Compare the methodology of simulation to Simon's four-phase model of decision making. Does the methodology of simulation map directly in to Simon's model? Explain it.