(2½ Hours)

(3) Answers to the <u>same question</u> must be <u>written together</u>.

(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.

N. B.: (1) **All** questions are **compulsory**.

[Total Marks: 75]

| | (4) Numbers to the <u>right</u> indicate <u>marks</u> . | |
|--------------|--|-------|
| | (5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> . | 3,00 |
| | (6) Use of Non-programmable calculators is allowed. | |
| 1. | Attempt <u>any three</u> of the following: | 15 |
| a. | Describe the architecture of business intelligence, | 100 A |
| b. | Explain Data Information and Knowledge. | 300 |
| c. | Define system. Explain how system can be characterized. | ST. |
| d. | What is business intelligence? Why effective and timely decision is important? | |
| e. | Explain the phases of decision making process system. | |
| f. | Explain the major potential advantage derived from adoption of a DSS. | |
| 2. | Attempt any three of the following: | 15 |
| a. | Explain the primary phases of model. | |
| b. | What is predictive and optimization model? | |
| c. | Explain some of the areas where data mining is used. | |
| d. | Write short notes on analysis methodology of data mining. | |
| e. | What is meant by data validation? Explain different kinds of data validation. | |
| f. | Write short note on data transformation. | |
| 3. | Attempt any three of the following: | 15 |
| a. | Explain Phases and Taxonomy of classification model. | |
| b. | Write short notes on evaluation of classification model. | |
| c. | Assume your own training dataset and predict the class label of an unknown sampling | |
| | using Naïve Bayesian classification. | |
| d. | Differentiate between following clustering methodologies: i) Partitioning method. ii) Hierarchical method. | |
| e. | Explain evaluation of clustering model. | |
| f. | Explain k-means method. | |
| 4. | Attempt any three of the following: | 15 |
| a | What is marketing decision process? Explain relational marketing in details. | 13 |
| b | Write short note on sales force management. | |
| c | Explain market basket analysis. | |
| d | List revenue management system. Explain any one in detail. | |
| e | What is supply chain optimization? | |
| f | Explain CCR model in detail. | |
| 5. | Attempt any three of the following: | 15 |
| a. | What is meant by knowledge management system? | |
| b. | Explain knowledge management activities. | |
| ϵ . | Explain the role of people in knowledge management. | |
| d, | Compare and contrast between Artificial intelligence versus Natural intelligence. | |
| e. | N' N' DI TO OT OT OT N' NO 2012 N' N' N | |
| f. | What are the applications of expert systems? | |
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