### Paper / Subject Code: 88703 / Business Intellitgence

# (21/2 Hours)

[Total Marks: 75]

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

- (2) Make suitable assumptions wherever necessary and state the assumptions made.
- (3) Answers to the same question must be written together.
- (4) Numbers to the right indicate marks.
- (5) Draw neat labeled diagrams wherever necessary.
- (6) Use of Non-programmable calculators is allowed.

# 1. Attempt <u>any three</u> of the following:

- a. Describe the architecture of business intelligence.
- Explain Data Information and Knowledge.
- Define system. Explain how system can be characterized.
- 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 <u>any three</u> of the following:

- a. Explain the primary phases of model.
- b. What is predictive and optimization model?
- Explain some of the areas where data mining is used.
- Write short notes on analysis methodology of data mining.
- e. What is meant by data validation? Explain different kinds of data validation.
- Write short note on data transformation.

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# 3. Attempt <u>any three</u> of the following:

- Explain Phases and Taxonomy of classification model.
- Write short notes on evaluation of classification model.
- 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:

- a What is marketing decision process? Explain relational marketing in details.
- b Write short note on sales force management.
- 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:

- a. What is meant by knowledge management system?
- b. Explain knowledge management activities.
- c. Explain the role of people in knowledge management.
- d. Compare and contrast between Artificial intelligence versus Natural intelligence.
- e. Write short note on knowledge engineering.
- f. What are the applications of expert systems?

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