# Paper / Subject Code: 88703 / Business Intellitgence

### TIME: 2½ Hours

### Total Marks: 75

15

15

- N. B.: (1) <u>All</u> questions are <u>compulsory</u>.

  - (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 any three of the following:
- Define business intelligence? Explain architecture of the business intelligence. a. b.
- What is decision support system (DSS)? What are the factors that affect the degree of success of a DSS.
- Describe the phases in the development of a decision support systems (DSS) c. d
- Enumerate approaches to the decision-making process e
- Explain main components of the main components of a business intelligence system f
- What is system? Write the role of a closed cycle marketing system with feedback effects

# Attemption any three of the following:

Explain the concept of mathematical models according to their characteristics probabilistic nature, temporal dimension.

- Describe different applications of Data Mining.
- Compare incomplete, noisy, or inconsistent data
- Enumerate basic data mining tasks in details.
- Explain data cleansing? Why is data cleansing important for data mining?
  - Differentiate between supervised and unsupervised learning.

# Attempt any three of the following;

- Explain Taxonomy of classification model.
- Explain the concept of k-means algorithm for Clustering
- Describe in details support vector machines
- Write about different Taxonomies of clustering methods.
  - Differentiate between Partitioning method and Hierarchical method.
    - Explain the concept of agglomerative and divisive hierarchical methods.

#### Page 1 of 2

15

#### 4. Attempt *any three* of the following:

- a. What is relational marketing? Write motivations & objectives of relational marketing.
- b. Explain types of data feeding a data mart of relational marketing analysis.
- c. Describe the term Market Basket Analysis.
- d. Describe in details optimization models for logistics planning
- e. What is supply Chain optimization? Explain in brief.
- f. What is the role of cross efficiency analysis and virtual input and virtual output in identification of good operating practices?
- 5. Attempt any three of the following:
- a. Describe how AI and intelligent agents support knowledge management. Relate XML to knowledge management and knowledge portals.
- b. Define 1. Data 2. Information 3. Knowledge
- c. Describe knowledge management activities in defails.
- d. Describe in details the Process and Practice Approaches to Knowledge Management
  c. Compare and contrast between Artificial Intelligence Versus Natural Intelligence
  f. Write different areas of expert systems.

Page 1 of 2

15