Registration no:

M. TECH
IMPE207

Total Number of Pages: 01

2nd Semester Back Examination 2016-17
DATA WAREHOUSING AND DATA MINING
BRANCH: INDUSTRIAL ENGINEERING/INDUSTRIAL ENGINEERING & MANAGEMENT
Time: 3 Hours
Max Marks: 70
Q.CODE: Z1071

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1   **Answer the following questions:**   (2 x 10)
   a) What is data mining?
   b) What is association rule?
   c) What is data warehouse?
   d) What is OLTP?
   e) Name two genetic operators used for manipulation.
   f) What is a data cube?
   g) Define bitmap indexing.
   h) What is classification?
   i) Name any four data mining applications.
   j) What is page mining?

Q2   Explain diagrammatically the physical architectures of data warehouse.   **(10)**

Q3 **a)** Illustrate the characteristics of data warehousing.   **(5)**
   b) Illustrate data mining models.   **(5)**

Q4 **a)** Explain decision tree.   **(5)**
   b) Illustrate the various approaches used to build a data warehouse.   **(5)**

Q5   Illustrate the types of knowledge discovered during data mining.   **(10)**

Q6 **a)** Explain clustering.   **(5)**
   b) Explain CART.   **(5)**

Q7   Explain diagrammatically star schema and snowflake schema.   **(10)**

Q8   **Write short answer on any TWO:**   **(5 x 2)**
   a) Web mining
   b) K-means method
   c) Neural Network
   d) CHAID