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Total Number of Pages: 02

M.TECH
IMPE207

2nd Sem Regular / Back Examination – 2015-16
DATA WAREHOUSING AND DATA MINING
Q.CODE:W973
Time: 3 Hours
Max marks: 70

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 warehousing?
 - b) What is Business Intelligence?
 - c) What is Fact Table?
 - d) What is the difference between OLTP and OLAP?
 - e) What is real-time data warehousing?
 - f) What is ER Diagram?
 - g) What is BUS Schema?
 - h) What is Metadata?
 - i) What is surrogate key?
 - j) Can we take backup when the database is opened?
- Q2 a) What is data mining? Briefly explain the Knowledge discovery process.. (5)
- b) Explain the three-tier data warehouse architecture. (5)
- Q3 What is WWW? What is meant by authoritative web page? Describe web usage mining. (10)
- Q4 What is multimedia data mining? How similarity search can be performed on multimedia data? Describe the contents of a multimedia data cube. (10)
- Q5 a) What is a concept hierarchy? Describe the OLAP operations in the Multidimensional data model. (5)
- b) What is association and correlation? With an example describe classification and prediction. (5)
- Q6 a) Discuss the concept involved in designing GUI based on DMQL. (5)
- b) What is a data ware house? Differentiate between operational data base system and data warehouses. (5)

- Q7 What is spatial data mining? What is spatial data cube, and what are the three dimensions in a spatial data cube? (10)
- Q8 Write short notes (Any TWO) of the following. (5 x 2)
- a) Data normalization
 - b) Constraint based association mining.
 - c) Bayesian classifiers
 - d) Backpropagation