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Total Number of Pages: 2

M.TECH
IMPE207

2nd Semester Regular / Back Examination – 2014-15

DATA WAREHOUSING & DATA MINING

BRANCH(S): Industrial Engineering

Time: 3 Hours

Max marks: 70

Q.Code: T525

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 Knowledge Discovery in Databases? How does it relate to mining?
 - b) Differentiate between operational and informational Data Store.
 - c) What are multidimensional databases? How do they play an important role in data warehouse?
 - d) What are the tangible benefits of data warehouse?
 - e) Can a data mining system generate only interesting patterns? Justify.
 - f) List out the classification of Data Mining System.
 - g) What do you mean by association rule mining?
 - h) What is a decision tree? What are the measuring factors of data mining?
 - i) Differentiate classification and clustering.
 - j) Differentiate between page mining and web mining.
- Q2 a) What is data warehousing? Draw a block diagram of data warehouse and explain each part of it . (5)
- b) Explain client-server architecture of a data warehouse with all its generations. Write advantages and disadvantages of all generations? (5)
- Q3 a) What is the role of Datamart in a data warehouse? Explain with example, (5)
- b) Give an account of performance consideration of data warehouse. (5)
- Q4 a) Differentiate OLAP and OLTP. Explain with example. Give an account of OLAP tools. (4)
- b) Explain the implementation of data warehouse for a Inventory system. (6)
- Q5 a) What is meant by association rule mining? Explain the apriori association rule mining with an example. (5)
- b) How discovery differs from predictions in data mining? (5)
- Q6 a) Discuss about k-Nearest neighbor classifiers and case-based reasoning. (5)
- b) What is a decision tree? What are the measuring factors of data mining? Explain. (5)
- Q7 a) Describe different types of neural networks. How neural networks help in classification? (5)
- b) What do you mean by clustering? How clustering techniques helps in decision making? Explain with an example. (5)
- Q8 Write Short Notes (Any Two) (5 x 2)
- a) Facts and Dimensions
 - b) DW for retail sales
 - c) Partitioning
 - d) CLARA

