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Total Number of Pages: 01

B.Tech.
PEIT5302

5th Semester Back Examination: 2019-20
DATA MINING AND DATA WARE HOUSING

BRANCH: BIOTECH, IT, ITE, TEXTILE

Max Marks: 70

Time: 3 Hours

Q.CODE: HB501

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) Enlist the stages of Data warehousing.
- b) Define: 1) Dimensions 2) Measures 3) Fact tables.
- c) What is called data cleaning?
- d) Differentiate between OLTP and OLAP.
- e) Define business Intelligence.
- f) What is fact less fact tables?
- g) Which are the steps to build the data warehouse?
- h) List out the types of Dimensional Modeling.
- i) Explain ROLAP vs MOLAP.
- j) What are the approaches used by Optimizer during execution plan?

Answer any five out of seven questions

Q2 a) With a neat sketch, Explain three tier architecture of data ware housing. (5)
b) Explain indexing OLAP data: Bitmap index and join index with example. (5)

Q3 a) Define data warehouse. Distinguish between ODS and data warehouse. (5)
b) What is data mining? Briefly explain data preprocessing steps. (5)

Q4 a) Specify the issues occurred in data mining. (5)
b) Name some areas of applications of data mining. (5)

Q5 a) What are the tools available for ETL? Explain. (5)
b) Explain different types of clusterings. (5)

Q6 Explain rule based classifiers with illustration. Explain K-nearest neighbor classification algorithm with example. (10)

Q7 Define cluster analysis. Explain briefly agglomerative hierarchical clustering with example. (10)

Q8 Write short answer on any Two: (2 x 5)
a) Data discretization
b) Apriori algorithm
c) Spatial mining vs temporal mining