D17002151

Registration No: | | | | | | | | | | |

Total Number of Pages : 01 **M.TECH**

M.TECH 1ST SEMESTER REGULAR EXAMINATIONS, DECEMBER 2017
DATA WAREHOUSING AND DATA MINING
Branch: CS, Subject Code:MCSPE1051
Time: 3 Hours
Max Marks : 70
The figures in the right hand margin indicate marks.

PART-A

(2X10=20 MARKS)

1. Answer the following questions .

a) What are the steps involved in KDD process?
b) Mention some of the data mining techniques.
c) Define Genetic algorithm.
d) What is the purpose of Data mining Technique?
e) Define cluster analysis.
f) What is meant by pattern?
g) Define Association Rule Mining.
h) What is the purpose of Apriori Algorithm?
i) Define anti-monotone property.
j) Give few techniques to improve the efficiency of Apriori algorithm.

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

2. a) What is data mining? Briefly explain the Knowledge discovery process. **5**
   b) Explain the three-tier data warehouse architecture. **5**
3. a) With an example, describe any two schema (star/snowflake/fact constellation) definitions using DMQL statements. **5**
   b) What is data integration? Discuss the issues to be considered for data integration. **5**
4. a) Briefly describe data generalization, summarization and analytical haracterization. **5**
   b) What is association and correlation? With an example describe classification and prediction. **5**
5. a) What is constraint-based mining? **2**
   b) Describe in detail about the possible constraints in high-level declarative DMQL and user interface. **8**
6. a) What is back propagation? Describe back propagation algorithm. **5**
   b) Discuss about multidimensional association rule mining from relational databases. **5**
7. a) Describe how categorization of major clustering methods is being done. **5**
   b) What is Hierarchical clustering? Describe any one Hierarchical clustering algorithm. **5**
8. Write short notes on
   a) OLTP **5**
   b) OLAP **5**

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