

Code No: 57048

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2017

DATA WAREHOUSING AND DATA MINING

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) What are the major challenges in data mining?
b) Explain the use of various statistical measures for data dispersion. How are they computed efficiently on large databases? [7+8]
- 2.a) What are the three tiers in three-tier data warehousing architecture? Give the roles performed by each layer.
b) Explain OLAP operations in the multidimensional data model. [8+7]
- 3.a) Explain the process of generation of association rules using Apriori algorithm.
b) What are the various methods for mining closed frequent item sets? Explain. [7+8]
4. Explain classification by back propagation in detail. [15]
- 5.a) What is the principle of partitioning? Explain the K-Medoids algorithm.
b) Write about density based methods for clustering. [8+7]
- 6.a) Explain the methods for mining frequent sub graphs.
b) What are the challenges for classification in a large social network in comparison with classification in single data relation? [7+8]
- 7.a) Explain spatial data mining with suitable example.
b) What is multimedia database? How similarity search is performed on multimedia data? [7+8]
- 8.a) How to choose a data mining system? What are the social impacts of data mining?
b) What is collaborative recommender system? Explain. [8+7]

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