

Code: 9A05706

B. Tech III Year II Semester (R09) Supplementary Examinations, May/June 2017

**DATA WAREHOUSING & DATA MINING**

(Information Technology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Describe three challenges to data mining regarding data mining methodology and user interaction issues.  
(b) Briefly explain about classification of database systems.
- 2 (a) Discuss about the typical OLAP operations on multidimensional data with an example.  
(b) Explain about concept hierarchy generation for categorical data.
- 3 (a) Discuss the importance of establishing a standardized data mining query language.  
(b) What are some of the potential benefits and challenges involved in such a task?  
(c) List and explain a few of the recent proposals in this area.
- 4 (a) How can we specify a data mining query for characterization with DMQL?  
(b) Describe the transformation of a data mining query to a relational query.
- 5 (a) How are meta rules useful? Explain with example.  
(b) Can we design a method that mines the complete set of frequent item sets without candidate generation? If yes, explain with example.
- 6 (a) Why is tree pruning useful in decision tree induction? What is a drawback of using a separate set of samples to evaluate pruning?  
(b) Define regression. Briefly explain about linear, non-linear and multiple regressions.
- 7 (a) Give an example of how specific clustering methods may be integrated, for example, where one clustering algorithm is used as a preprocessing step for another.  
(b) What are three different web mining techniques? Explain with example.
- 8 (a) Describe similarity search in time series analysis.  
(b) Write about latest application and trends in data mining.

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