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**Question Paper Code : 71208**

M.E./M.Tech. DEGREE EXAMINATION, JUNE/JULY 2013.

Elective

Computer Science and Engineering

CS 9264/CS 964/UCP 9164/10244 CSE 51 —DATA WAREHOUSING AND  
DATA MINING

(Common to M.E. – Software Engineering/M.Tech. - Information Technology/  
M.Tech. – Multimedia Technologies and M.E. – Networking and Internet  
Engineering)

(Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention any two benefits of data warehousing.
2. State any two differences between the technical metadata and business metadata.
3. What is data discretization?
4. What is frequent item set? Give an example.
5. Mention the use of decision tree.
6. What is lazy learner? Give an example.
7. Define categorical variable. Give an example.
8. Mention the difference between agglomerative and divisive hierarchical clustering.
9. State the two basic measures of text retrieval.
10. What is the spatial-to spatial dimension? Give an example.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the various components of data warehousing with neat diagram in detail.

Or

- (b) Discuss about the online analytical processing and multidimensional data analysis.

12. (a) Explain about data cleaning, data integration and transformation with an example for each.

Or

- (b) Describe any two efficient and scalable frequent item set mining methods with an example for each.

13. (a) Discuss Bayesian and rule based classification methods with an example for each.

Or

- (b) Write and explain backpropagation algorithm and its network structure and weight adjustment in detail.

14. (a) Discuss k-Means and k-Medoids classical partitioning methods and their variations with an example for each.

Or

- (b) Why is outlier mining important? Briefly describe the different approaches for outlier and analysis.

15. (a) Write about spatial and multimedia data mining in detail.

Or

- (b) Explain the different approaches to text and web mining briefly.