IT-840

B.E. VIII Semester Examination, June 2013 Data Mining and Warehousing Elective-IV

Time: Three Hours

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Maximum Marks: 100Minimum Pass Marks: 35

Note: Attempt all questions. All questions carry equal marks.

1. a) Describe the overall and typical architecture of data warehouse. 10

b) Write in details about the key components of data warehouse. 10

OR

- 2. a) Explain all steps in designing star schema. 10
- b) Discuss the features of the multidimensional model. 10
- 3. a) Describe the architecture of MOLAP in detail with the help of suitable diagram. 10
- b) What do you understand by the term OLAP? List the various types of OLAP operations which are supported by the OLAP tools.10

OR

- 4. a) Describe the query management process. 10
- b) Explain OLAP software architecture with the help of schematic diagram. 10
- 5. Write short notes on 20
- a) Classification b) Clustering c) Regression d) Generalization e) sequence discovery

OR

- 6. What are the differences between 20
- a) Data mining versus Query tools
- b) Data mining and Machine learning
- c) Relational DBS and Spatial DBS
- d) Data mining versus Knowledge discovery
- 7. a) Discuss the detailed concept of mining multidimensional association rules from relational databases. 10
- b) Describe in detail the apriori algorithm. 10

OR

8. a) Explain in brief that how we can mine different kind of association rules. 10 b) Give brief note on latest trends in association rule mining.

10

- 9. a) What is decision tree? Explain how classification is done using Decision Tree Induction. 10 b) Given data items {2.4,10.12.3,20,30.11.25}, trace the execution of K-means clustering algorithm for the same.
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OR

- 10. a) Discuss the important issues to be addressed by data clustering system 10
- b) Write short notes: 10
- i) Bayesian classification
- ii) Associative rule based classification.

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