[4860] - 348

M.E. (Computer Engineering)
c : DATA WAREHOUSING AND DATA MINING
(2008 Course) (510112) (Elective - IV) (Semester - II)

Time : 3 Hours]   *[Max. Marks : 100*

Instructions to the candidates:

1) *Q1 and Q6 are compulsory.*
2) *Neat Diagrams must be drawn wherever necessary.*
3) *Assume suitable data, if necessary.*
4) *Solve any two questions from Q2, Q3, Q4, Q5.*
5) *Solve any two questions from Q7, Q8, Q9, Q10.*
6) *Answers to the two sections should be written in separate books.*

SECTION - I

Q1) a) Compare star schemas, snowflake schemas and star flake schemas of conceptual models in data warehouse. **[8]**

    b) Explain any two techniques for data reduction in large scale databases.**[8]**

Q2) a) Design semi online computational cube model for retail sales application. **[9]**

    b) Explain different indexing techniques used in data warehouse. **[8]**

Q3) a) Explain Correlation analysis with suitable example. **[9]**

    b) Define Association Rule Mining. Explain Apriori Algorithm. **[8]**

Q4) a) Explain constraint-based association Mining with suitable example. **[9]**

    b) Explain different Data Mining Primitives. **[8]**

Q5) Write a short Note on: **[17]**

    a) Warehouse Manager.

    b) Materialized View.

    c) Data Compression.

SECTION - II

Q6) a) Explain different parameters used to evaluate classification model. **[8]**

b) Explain Spatial data Cube with suitable example. **[8]**

Q7) a) Explain different Measures for selecting the Best split in Decision Tree Classification Model with suitable example. **[9]**

b) Explain the Key issues in Hierarchical Clustering with suitable example. **[8]**

Q8) a) Define Regression. Explain Linear regression techniques with suitable example. **[9]**

b) Explain Web Usage Mining with suitable example. **[8]**

Q9) a) Explain any data mining clustering technique used for network data analysis. **[9]**

b) Explain Rough set data mining approach with suitable example. **[8]**

Q10) Write a short Note on: **[17]**

a) Text Mining.

b) Genetic Algorithms.

c) Outlier Analysis.

☞ ☞ ☞