PSCSCT03 - Paper-III : Data Warehouse and SQL

P. Pages : 1

Time : Three Hours

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Max. Marks : 80

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw a well labelled diagram wherever necessary.
3. Avoid vague answers and write answers specific to the questions.

1. Either

a) What are the characteristics of Data warehouse? Explain performance considerations while designing Data warehouse. **8**

b) What are the various important decisions to be taken in designing a data warehouse? **8**

OR

c) Explain data warehouse case study for weather forecasting. **8**

d) Explain managed Query Environment in detail. **8**

2. Either

a) What are the various software components for a Data Mart? Explain in detail. **8**

b) What is Data Mining? Explain the important associated rules of Mining through data mining tools. **8**

OR

c) Explain Metadata for a Data mart and also explain how to load a Data mart. **8**

d) Explain Data mining algorithm? What are the steps required to move from data warehouse to mining ? **8**

3. Either

a) What is system Databases? Explain the SQL server Data storage architecture. **8**

b) What is Scalar operators? Explain the Data -types used in SQL. **8**

OR

c) Discuss the role of Data-Engine in SQL server Database. **8**

d) Explain stored procedure with suitable example. **8**

4. Either

a) What is Data Integrity? Explain the Mechanisms of constraint checking. **8**

b) Explain the concept of implementing permission in SQL server. **8**

OR

c) Explain the properties of transactions and give its types? **8**

b) Explain the different replication methods for backup and concurrency control. **8**

5. Attempt all questions.

a) Write short note on Data modelling. **4**

b) Explain the application of Data Mining in the following area. **4**
   i) Retail / Marketing   ii) Banking.

c) Differentiate between DDL and DML. **4**

d) What do you mean by Locking? Explain. **4**

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