

M.C.A. - I (Two Year Programme) (New CBCS Pattern) Semester - II  
**PSMCAT204.1 : Elective-I - Data Warehousing Paper-IV**

P. Pages : 2

Time : Three Hours



**GUG/S/23/13645**

Max. Marks : 80

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

**Either**

1. a) Define data warehousing. Write a characteristics of a data warehousing and also explain the architectural strategies. **8**
- b) Explain the following. **8**
- i) Data content
  - ii) Data modeling.

**OR**

- c) Explain the various tools used for Data warehousing in detail. **8**
- d) Explain the following. **8**
- i) OLTP systems
  - ii) OLAP systems

**Either**

2. a) Define data Mart, Explain the type of data mart and how to load the data Mart? **8**
- b) Explain the software component for a data mart using example. **8**

**OR**

- c) Explain the data mining steps in detail. **8**
- d) Explain the following. **8**
- i) Database segmentation.
  - ii) Predictive modeling

**Either**

3. a) Explain the role of SQL and also explain the feature of SQL using example. **8**
- b) Explain the data Manipulation Language in detail. **8**

**OR**

- c) Write a procedure to modify and retrieve the database objects from SQL. **8**
- d) Define Queries and explain the type of Queries and Queries expression in brief. **8**

**Either**

4. a) Explain the following using example. 8  
i) Commit  
ii) Rollback.
- b) Define views and explain the views security related to database. 8

**OR**

- c) Define deadlock and explain the locking levels in detail. 8
- d) Explain the concepts of procedure & stored procedure in detail. 8
5. Attempt all the questions.
- a) Explain various types of tools for OLAP in brief. 4
- b) Explain the tools used for data mining in detail. 4
- c) Explain the SQL datatypes in detail. 4
- d) Write a short note on Triggers. 4

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