

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

P. Pages : 2

Time : Three Hours



GUG/W/24/13645

Max. Marks : 80

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

Either:

1. a) Define Data warehousing? Explain the characteristics of Data warehouse. 8
- b) Discuss the Architectural strategies involved in Designing a Data warehouse. 8

OR

- c) Differentiate between OLTP and OLAP systems. 8
- d) What do you mean by Data Modeling? Discuss the categories of OLAP Tools. 8

Either:

2. a) Define Data Mart. Discuss the different types of data marts in detail. 8
- b) What is Data Mining? Explain the steps involved in Data Mining. 8

OR

- c) What is Link Analysis? Explain the concept of segmentation in detail. 8
- d) What is Metadata? Explain the concept of Metadata for a Data Mart? 8

Either:

3. a) Explain schemas and sequences in SQL. 8
- b) Explain in detail DDL and DML in SQL. 8

OR

- c) Explain Types of Joins used in SQL. Give example. 8
- d) List and explain the data types in SQL. 8

Either:

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|-----------|----|--|----------|
| 4. | a) | Explain Transaction Control Language in SQL. | 8 |
| | b) | What are Triggers and their usage in PL/SQL? | 8 |

OR

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|-----------|------|--|----------|
| | c) | Explain the following. | 8 |
| | i) | Commit. | |
| | ii) | Grant / Revoke. | |
| | iii) | Rollback | |
| | d) | Write a PL/SQL block to display only title and quality of all album stored in the music album. | 8 |
| | | Note : Music album has fields title, hero, singer, quality. | |
| 5. | | Solve all the questions. | |
| | a) | Write a short note on data content. | 4 |
| | b) | Define software component for a Data Mart. | 4 |
| | c) | Write a short note on Synonyms. | 4 |
| | d) | What are Queriers and Queries Expression? | 4 |
