

B.C.A. - III (CBCS Pattern) Semester-V
004 - Elective-I-Paper-II : Data Warehousing and Data Mining

P. Pages : 2

Time : Three Hours



GUG/W/24/13079

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answer related to question.

Either:

1. a) Define data processing? Explain the importance of the information life cycle. 4
- b) Discuss the architecture of data warehousing and the importance of data warehousing. 4

OR

- c) What are the key tools for data warehousing and their contribution in data cleaning. 4
- d) Explain the concept of data integration. 4

Either:

2. a) What are OLAP and OLTP? Explain functionalities. 4
- b) Explain following operations in OLAP. 4
 - i) Roll-up
 - ii) Drill-down

OR

- c) Discuss advantages and disadvantages of OLTP. 4
- d) Differentiate between HOLAP and MOLAP. 4

Either:

3. a) What is Metadata in the context of data warehousing and its importance. 4
- b) Write a note on: - Data Marts and Data Warehouses. 4

OR

- c) Explain the process of designing a Data Mart. 4
- d) Explain various types of Data Marts in detail. 4

Either:

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| 4. | a) | What is Data Mining? Explain the steps involved in data mining. | 4 |
| | b) | Explain the concept of Data Mining Algorithm. | 4 |

OR

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|-----------|----|--|----------|
| | c) | Explain the functions of Data Mining and its Major issues. | 4 |
| | d) | How does data segmentation contribute to data mining? | 4 |
| 5. | | Solve all the questions. | |
| | a) | Explain types of databases. | 2 |
| | b) | Explain features of OLAP. | 2 |
| | c) | Explain steps in implementing a data mart. | 2 |
| | d) | Explain data mining with example. | 2 |
