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Total No. of Pages: 02
Total No. of Questions: 09

MCA (Sem.-4th)
DATA WAREHOUSING AND DATA MINING
Subject Code: MCA-401
Paper ID: [A2555]

Time: 3 Hrs.

Max. Marks: 100

INSTRUCTIONS TO CANDIDATE:

- 1. Section A, B, C and D contains Two questions each carrying TWENTY marks. Students are required to attempt any one question from each section.*
- 2. Section E is compulsory carrying TWENTY marks.*

SECTION-A

- Q.1. What is a data warehouse? Discuss the basic characteristics of a data warehouse. 20
- Q.2. Discuss in detail the implementation models for the spatial data. 20

SECTION-B

- Q.3. Describe in detail conceptual models for temporal data warehouses. 20
- Q.4. Write a note on:
i) Temporal Hierarchies.
ii) Temporality Data types. 20

SECTION-C

- Q.5. Write a note on:
i) Bayesian Classification
ii) Genetic Algorithms 20
- Q.6. Explain the concept of data mining. List and Explain the functionalities associated with it. 20

SECTION-D

- Q.7. Write short notes on:
i) DBSCAN
ii) K-Mean Partitioning method 20
- Q.8. Discuss in detail various types of data that are considered in the cluster analysis. 20

SECTION-E (Compulsary)

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|------|-----|---|---|
| Q.9. | (a) | Describe the need for developing a data warehouse. | 2 |
| | (b) | Write a note on data mart. | 2 |
| | (c) | List the difficulties in implementing data warehouse. | 2 |
| | (d) | List different models of data warehouse servers. | 2 |
| | (e) | Explain temporal extension of multidimensional model. | 2 |
| | (f) | How KDD differs from data mining. | 2 |
| | (g) | List various challenges in implementing data mining. | 2 |
| | (h) | Differentiate between classification and prediction | 2 |
| | (i) | What are the requirements of clustering in data mining. | 2 |
| | (j) | Write a note on back propagation. | 2 |

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