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Total Pages: 3

OMCA/M-20

10650

DATA WAREHOUSING & DATA MINING

Paper–MCA-402

Time Allowed: 3 Hours] [Maximum Marks: 80

Note: Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. Answer the following questions in brief: $2\times8=16$
 - (a) Distinguish between roll-up and drill down OLAP operations.
 - (b) Define metadata and data mart.
 - (c) "Whether all patterns are interesting", Comment on the statement.
 - (d) Write a note on DMQL.
 - (e) What is support and confidence? Describe.
 - (f) What do you understand by data mining prediction techniques?
 - (g) Write a brief note on density-based clustering methods.

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(h) What is meant by outliers? Write its different types.

UNIT-I

2. (a) What is Data warehouse? Discuss its important characteristics. Compare among OLAP and OLTP.

8

(b) Why Data warehouse schema is important to understand? Outline snow-flake schema with example.

8

3. (a) Outline and explain each component three-tier architecture of Data warehouse.

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(b) Explore the methods for implementation of Data warehouse systems.

8

UNIT-II

4. (a) Under which criteria a Data mining system may be classified? Explain the Life cycle of Knowledge discovery process.

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(b) Define Data mining? What are data mining primitives? Discuss the system architectures for data mining.

8

5. (a) Discuss the factors which influence the quality of Data. How data can be cleaned and reduced?

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(b)	Differentiate between Descriptive and Predictive
	data mining models.

8

UNIT-III

- What do you mean by Association rule mining? 6. **Discuss** the algorithm of Apriori mining association rules in transactional database with candidate key without candidate and key 16 generation.
- 7. What is meant by Classification? Which data mining methods are comes under supervised learning? How the classifier accuracy determined? Also explain it various types.

UNIT-IV

- 8. Define Clustering Discuss the desired requirements of Cluster translysis. Explain hierarchical and partitioning technique of the cluster analysis with appropriate distance function.
- 9. (a) Draw a comparative analysis on any seven Data mining tools.
 - (b) Describe the use of Data mining in Biology, city planning, sports and financial sectors. 8