

Total No. of Questions: 20

Total No. of Pages: 02

Roll No. _

Paper Code: 3C3006

MCA III-Sem (Main & Back) Exam Jan 2026
MCA-306-I(a)(N) Data Mining and Data Warehousing
3C3006

Time: 3 Hours

Maximum Marks: 70

Instructions to Candidates:

- 1) The question paper is divided in three parts.
- 2) Part A contains 10 questions which are compulsory. Part B contains five questions which are compulsory. Part C contains five questions of which three are to be attempted.

Part A (Word limit 25)
All questions are compulsory

10x2=20

- Q.1 What is OLAP in Data warehousing?
- Q.2 Define data transformation.
- Q.3 Mention any two DM Techniques.
- Q.4 What is KDD?
- Q.5 Write any two clustering algorithms.
- Q.6 What is classification in Data mining?
- Q.7 Define classification error.
- Q.8 Write any two decision tree algorithm.
- Q.9 Define Web mining.
- Q.10 What is data reduction?

Part B
Attempt all five questions.

5x4=20

- Q.1 Explain the architecture of Data Warehouse and its components.
- Q.2 Describe data pre-processing steps with suitable examples.
- Q.3 Explain the classification and prediction techniques in data mining.
- Q.4 Write a note on generalized association rules and correlation analysis.
- Q.5 Explain K-means and K-MEDOID clustering algorithms.

Part-C
Attempt any three questions.

3x10=30

- Q.1 What is OLAP? Explain different OLAP operations with suitable example in detail.
- Q.2 Explain how multidimensional data models are used in OLAP?
- Q.3 Describe the construction of decision trees with pre-sorting techniques.
- Q.4 Explain the challenges and applications of data mining.
- Q.5 Discuss the process of extracting knowledge from web using web mining tools.