

Roll No. ....

Exam Code : J-19

Subject Code—0399

**M. C. A. (Fifth Year) EXAMINATION**

(5 Years Integrated Course)

(For Batch 2009 Onwards Main & Re-appear)

DATA MINING AND DATA WAREHOUSING

MCA-505

*Time : 3 Hours*

*Maximum Marks : 70*

**Section A**

**Note :** Attempt any *Seven* questions. **7×5=35**

1. What are major issues in data mining ?
2. How are data warehouses implemented ?
3. What are different data mining primitives ?
4. What is constraint based association mining ?
5. What is Prediction ? Differentiate between classification and prediction.

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6. What are the applications of data mining ?
7. What is Outlier Analysis ?
8. What is the importance of data mining ? What are different kinds of data on which data mining can be done ?
9. What are association rules ? Differentiate between simple and multilevel association rules ?
10. What is meant by pattern interestingness and how it is measured ?

### Section B

**Note :** Attempt all the questions.

11. Explain with diagram the different multidimensional data models.

*Or*

Write and example Apriori algorithm and FP growth algorithm. **12**

12. What is meant by classification ? Explain any *two* techniques used for classification.

*Or*

What is data preprocessing and why is it required ? Explain the techniques used for data preprocessing. **12**

13. What is Clustering ? Name all clustering techniques and explain partitioning methods in detail.

*Or*

What is Data Mining ? Explain the architecture of data mining systems in detail. **11**