(d) Normalize the two variables based on $z$-score normalization.
(e) Calculate the correlation coefficient (Pearson's product moment coefficient). Are these two variables positively or negatively correlated.

15

## Unit II

3. Discuss Constraint-Based Association Mining. Also explain the various types of constraints related to association.

15
4. (a) "Strong Rules Are Not Necessarily Interesting" Justify with the help of an example.
(b) Describe the concept of multi-dimensional association rules from relational databases.

## Unit III

5. With the help of one example the decision tree method of classification.
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## EE-689

M.C.A. EXAMINATION, Dec. 2018
(Fifth Semester)
(B. Scheme) (Main \& Re-appear)

MCA663
DATA WAREHOUSING AND MINING

Time : 3 Hours] [Maximum Marks : 75
Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

6. Describe naïve Bayesian classification method in detail.

## Unit IV

7. What are various types of OLAP Servers ? Compare functioning of each. 15
8. Discuss the Three-Tier Data Warehouse Architecture. 15
9. Describe naïve Bayesian classification method in detail. 15

## Unit IV

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