What are Bayesian Classifier? Explain Baye's theorem for classification.

9. Explain K-means clustering algorithm. What are its limitation?

10. List out the OLAP operations in multidimensional data model and explain with example.

11. Explain :

    (a) Database Miner

    (b) Hierarchy generation

P

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17/78-C

B.C.A. (Fifth Semester) Examination, 2017

Paper : Second (502)

(Data Mining)

Time : Three Hours] *[Maximum Marks : 70*

Note : Attempt questions from **all** sections as per instructions.

Section - A

(Very Short Answer Questions)

Note: Attempt **all** parts of this question. Give answer of each part in about 50 words.

$1\frac{1}{2} \times 10 = 15$

1. (i) List various kind of data mining.

   (ii) What is data warehouse?

   (iii) What is cross validation technique?

   (iv) Why data pre-processing required in data mining?

   (v) What is data warehouse metadata?

   (vi) List out the data mining functionalities.

   (vii) What is Association rule?

(viii) Differentiate between Classification and Clustering.

(ix) What are the purpose of data cleaning.

(x) Give any two application of data mining.

Section - B

(Short Answer Questions)

Note : Attempt **all** questions. Give answer of each question in about 200 words. $7 \times 5 = 35$

2. Explain the various data mining issues and functionality.

OR

Explain the importance of evaluation criteria for classification method.

3. What is concept description? Explain data generalization and summarization based characterization.

OR

Explain the steps involved in the process of knowledge discovery from database.

4. Explain the data warehouse architecture.

OR

Explain the method of data warehouse implementation.

5. What is Apriori algorithm? How it is used to find frequent item set?

OR

List and explain various issues in classification.

6. Explain the need of data mining in banking sector.

OR

Explain trends in data mining.

Section - C

(Long Answer Questions)

Note: Attempt any **two** questions. Give answer of each question in about **500** words. $10 \times 2 = 20$

7. Explain-FP growth algorithm for discovering frequent item set.