

**2023**

**Full Marks - 60**

**Time - As in the Programme**

*The figures in the right hand margin indicate marks.*

*Answer ALL questions.*

**Group – A**

1. Answer all questions : [8 x 1]
- (a) What is Classification ?
  - (b) What is mean by Decision Tree Classifier ?
  - (c) What is a Genetic Algorithm ?
  - (d) Define Clustering Data Mining ?
  - (e) What is Prediction ?
  - (f) What is Neural Networks ?
  - (g) Define the term Data Mining.
  - (h) Name any two data mining tools.

**Group – B**

2. Answer any 8 questions : [8 x 1.5]
- (a) What is Back Propagation Network ?
  - (b) What is the need of Fuzzy Logic ?
  - (c) What is Data Clearing ?
  - (d) Differentiate between Top-Down and Bottom Up Development.

*[P.T.O...]*

**[ 2 ]**

- (e) What is Association Rule ?
- (f) State any two features of Data Preprocessing.
- (g) What do you mean by Data Warehouse ?
- (h) Differentiate between Data clearing and Data Preprocessing.
- (i) Define the term Data Reduction.
- (j) What are the different types of Association Rules ?

**Group – C**

3. Answer any 8 of the following : [8 x 2]

- (a) What is the K-means algorithm ?
- (b) Explain Association Algorithm in Data Mining ?
- (c) What are the different tasks of Data Mining ?
- (d) Explain the process of KDD ?
- (e) What is Evolution and deviation analysis ?
- (f) What are the issues in data mining ?
- (g) Differentiate between Data Mining and Data Warehousing ?
- (h) What are differences between OLAP and OLTP ?
- (i) What is Supervised and Unsupervised Learning ?
- (j) Name areas of Applications of Data Mining ?

**Group – D**

Answer all questions : [4 x 6]

- 1.(a) Explain the Architecture Data Warehouse ?  
Define OLTP and OLAP ?

**[ 3 ]**

OR

- (b) Explain the Top down and Bottom up development methodology advantage and disadvantage ?
- 2.(a) Define Data Mining ? Explain type of data mining with example ?

OR

- (b) Explain the functionalities of Data Mining ?
- 3.(a) State and explain Aprior Algorithm ?

OR

- (b) What are the different types of Association Rule ? Explain each one in brief with suitable example.
- 4.(a) Explain what is classification and predication ?  
Differentiate between Classification and Prediction ?

OR

- (b) Define Classifier Accuracy ? Define methods to find accuracy of the classifier ?



**V - S - BCA - DSE - II - (Data Mining)**