Roll No. ....

S.C.No.—2214404

B.C.A. EXAMINATION, 2024

(Main)

(Fourth Semester)

DATA MINING

22USECBCA401

Time : 3 Hours   Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following : **8×2=16**

   (i) Scope of data mining

   (ii) Data Cleaning

   (iii) Future of BI

   (iv) Concept Hierarchies

   (v) Cluster analysis

   (vi) Web content mining

   (vii) Risk Management in data Mining

   (viii) Data Mining in health care.

2. What is Data Mining ? How is it different from Database Management System ? Explain Data Mining process with a suitable example. **16**

3. Describe Business Intelligence with its applications. How is BI different form DM ? **16**

4. What is Data Preprocessing ? Describe its importance in KDD process. Explain various data preprocessing techniques. **16**

5. Write notes on the following : **2×8=16**

   (i) Association Rules

   (ii) Neural Network.

6. What is Clustering ? Discuss the various clustering algorithms. **16**

7. Describe web mining with its various categories and its applications. **16**

8. Describe the following :   2×8=16

    (i)   Data mining as a business application

    (ii)   Scientific application using Data mining

9. What is the various usage of data mining in medical diagnosis specially in diabetes detection ?   **18**