CBCS SCHEME

USN ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚   **16/17MCA442**

Fourth Semester MCA Degree Examination, Feb./Mar. 2022
Data Warehousing and Data Mining

Time: 3 hrs.   Max. Marks: 80

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1   a.   Explain Data Warehouse basic concepts in detail and explain the characteristics of OLAP system.   **(08 Marks)**
    b.   Explain the Data Cube. Explain 3 – D data cube and 4 – D data cube in detail.   **(08 Marks)**

OR

2   a.   Comparison of OLTP and LAP system.   **(08 Marks)**
    b.   Explain Data Cube Operations.   **(08 Marks)**

Module-2

3   a.   What is Data Mining? Explain the Motivating challenges of Data Mining.   **(08 Marks)**
    b.   Explain the Data Mining task.   **(08 Marks)**

OR

4   a.   Explain any 4 Datamining Applications.   **(08 Marks)**
    b.   Explain any 2 Data Preprocessing categories.   **(08 Marks)**

Module-3

5   a.   Explain Frequent itemset generation in detail.   **(08 Marks)**
    b.   Explain Rule generation in Apriori Algorithm.   **(08 Marks)**

OR

6   a.   Explain FP Growth Algorithm.   **(08 Marks)**
    b.   Explain Alternative methods for Generating frequent itemset in detail any 2.   **(08 Marks)**

Module-4

7   a.   Explain Nearest – neighbor classifiers, with diagram.   **(08 Marks)**
    b.   Explain : i) Bayes theorem   ii) Naïve Bayes classifiers.   **(08 Marks)**

OR

8   a.   Explain the General Approach for solving a Classification problem.   **(08 Marks)**
    b.   Explain the evaluation criteria for Classification methods.   **(08 Marks)**

Module-5

9   a.   With an example, explain types of Cluster Analysis methods.   **(08 Marks)**
    b.   What is Cluster Analysis? Describe features of Cluster Analysis.   **(08 Marks)**

OR

10   a.   With an example, explain K – Means algorithm.   **(08 Marks)**
    b.   Explain Hierarchical Clustering in detail.   **(08 Marks)**

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