



Roll No: _____

BTECH
(SEM VIII) THEORY EXAMINATION 2024-25
DATA WAREHOUSING & DATA MINING

TIME: 3 HRS

M.MARKS: 100

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt all questions in brief.

2 x 10 = 20

Q No.	Question	CO	Level
a.	Explain Discretization.	3	K1
b.	Discuss issues to consider during data integration	3	K1
c.	Explain the working of Artificial Neuron.	4	K1
d.	Explain support and confidence in Association rule mining	4	K2
e.	Explain Pivot operation in OLAP.	1	K2
f.	Define Information Gain.	4	K1
g.	Define Data warehouse.	1	K1
h.	Explain Outlier Analysis.	3	K1
i.	What does negative, positive and zero Value Correlation coefficient indicates?	3	K2
j.	Explain Binning method for dealing with noisy data.	3	K1

SECTION B

2. Attempt any three of the following:

10 x 3 = 30

Q No.	Question	CO	Level
a.	Explain three-tier data warehousing architecture.	2	K1
b.	Compare OLTP and OLAP Systems.	1	K1
c.	Discuss Snowflakes, and Fact Constellations Schemas for Multidimensional Data Models	1	K1
d.	Explain the following i. Enterprise Warehouse ii. Data Mart	2	K1
e.	Explain the Non linear separability using EX-OR functionality in Neural Network	4	K2

SECTION C

3. Attempt any one part of the following:

10 x 1 = 10

Q No.	Question	CO	Level
a.	Explain Laplacian correction to avoid computing probability values of zero in Naïve Bayesian Classifier with example	4	K3
b.	Explain Top- down and Bottom-up approach for Hierarchical Clustering	4	K2



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4. Attempt any one part of the following:

10 x 1 = 10

Q No.	Question	CO	Level
a.	Explain K-mean Clustering Algorithm with it's Limitations	4	K2
b.	Explain DBSCAN Clustering algorithm	4	K2

5. Attempt any one part of the following:

10 x 1 = 10

Q No.	Question	CO	Level
a.	Explain The following iii. Spatial Mining iv. Temporal Mining	5	K2
b.	Explain the following i. Regression ii. Normalization	3	K2

6. Attempt any one part of the following:

10 x 1 = 10

Q No.	Question	CO	Level
a.	Explain the Following i. various measures to calculate the central tendency of Data ii. Standard deviation and Variance.	3	K2
b.	Explain Decision tree with a suitable example	4	K2

7. Attempt any one part of the following: <https://www.aktuonline.com> **10 x 1 = 10**

Q No.	Question	CO	Level
a.	Explain web content mining and web structure mining.	5	K2
b.	Differentiate ROLAP, MOLAP and HOLAP Server Architectures	5	K2