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**BTECH**  
**(SEM VII) THEORY EXAMINATION 2024-25**  
**DATA WAREHOUSING AND DATA MINING**

**TIME: 3 HRS****M.MARKS: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

S No.	Questions	Level
a.	Define Data Warehouse.	K1
b.	Differentiate between Database System and Data Warehouse.	K2
c.	What is a Warehouse Schema Design?	K1
d.	Explain the role of OLAP in Data Warehousing.	K2
e.	What is Data Cleaning in Data Mining?	K1
f.	List different Data Reduction techniques.	K2
g.	What is the importance of Clustering in Data Mining?	K1
h.	Differentiate between Hierarchical and Partitional Clustering.	K2
i.	Define ROLAP and MOLAP.	K1
j.	Mention any two applications of Data Warehousing.	K2

**SECTION B****2. Attempt any three of the following: 10 x 3 = 30**

a.	Explain the architecture and components of Data Warehousing.	K3
b.	Discuss the various strategies for Warehouse Management.	K3
c.	Explain different types of Data Preprocessing techniques in Data Mining.	K3
d.	Describe the Decision Tree algorithm with an example.	K3
e.	Explain different OLAP operations in Data Warehousing.	K3

**SECTION C****3. Attempt any one part of the following: 10 x 1 = 10**

(a)	Explain the Multi-Dimensional Data Model and Data Cubes in detail.	K2
(b)	Describe different types of schemas used in Data Warehousing.	K2

**4. Attempt any one part of the following: 10 x 1 = 10**

(a)	Explain the architecture and functioning of Parallel Processors & Cluster Systems in Data Warehousing.	K3
(b)	Discuss different approaches to Distributed Database Management Systems implementation.	K3

**5. Attempt any one part of the following: 10 x 1 = 10**

(a)	What are the major functionalities of Data Mining? Explain with examples.	K2
(b)	Discuss the importance of Data Integration and Transformation in Data Mining.	K2

**6. Attempt any one part of the following: 10 x 1 = 10**

(a)	Differentiate between the Hierarchical Clustering methods: CURE and Chameleon.	K3
(b)	Discuss the following in detail with suitable example: i. Density based methods ii. Grid Based methods	K3

**7. Attempt any one part of the following: 10 x 1 = 10**

(a)	Describe the OLAP Servers, ROLAP, MOLAP, HOLAP.	K3
(b)	Compare the Web Mining, Spatial Mining, and Temporal Mining applications.	K3