CBCS SCHEME

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BAD515B

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
Data Warehousing

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	**a.**	Discuss the escalating need for strategic information in modern business. How does this need impact decision making processes?	**10**	**L2**	**CO2**
	b.	Bring out the differences between operational systems and decision support systems in detail.	**10**	**L3**	**CO2**
		OR			
Q.2	**a.**	How do you justify "Data warehousing the only viable solution?	**10**	**L2**	**CO1**
	b.	Compare data warehouses and data marts. Discuss when and why an organization might choose one over the other.	**10**	**L3**	**CO1**
		Module – 2			
Q.3	**a.**	Discuss on any four key issues to be considered while planning for data warehouse.	**10**	**L2**	**CO2**
	b.	Illustrate the process of data transformation and its significance in data warehousing	**10**	**L2**	**CO2**
		OR			
Q.4	**a.**	How are data warehouse projects different from OLTP system projects? Describe any four such differences.	**10**	**L2**	**CO2**
	b.	With a neat diagram, explain the architectural components driven by the requirements.	**10**	**L3**	**CO2**
		Module – 3			
Q.5	**a.**	Define the architectural framework and how do they interact to support data warehousing explain with a neat diagram.	**10**	**L3**	**CO3**
	b.	Analyze the significance of metadata in data warehousing. How does it improve data accessibly and management within the warehouse.	**10**	**L4**	**CO3**
		OR			
Q.6	**a.**	List out the guidelines for selecting appropriate hardware and operating system for the data warehouse.	**10**	**L3**	**CO3**
	b.	With a neat diagram, discuss on the tools required for a data warehouse.	**10**	**L4**	**CO3**
		Module – 4			
Q.7	**a.**	What are star schema keys, and what role do they play in a star schema. Describe how they contribute to data organization and retrieval.	**10**	**L3**	**CO4**
	b.	Describe the ETL tools used in data warehousing. How do these tools improve ETL process?	**10**	**L4**	**CO4**
		OR			
Q.8	**a.**	Discuss the methods for handling updates to dimension tables in a data warehouse. What strategies exist for managing slowly changing dimensions?	**10**	**L3**	**CO4**
	b.	Outline the essential steps and requirements in the ETL process.	**10**	**L4**	**CO4**

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		Module – 5			
Q.9	**a.**	Identify the key challenges of maintaining data quality in a data warehouse.	**10**	**L3**	**CO5**
	b.	List and explain the major features and functions of OLAP in data warehouse.	**10**	**L3**	**CO5**
		OR			
Q.10	**a.**	List and explain five criteria for selecting information delivery tools for your data warehouse.	**10**	**L3**	**CO5**
	b.	Describe briefly two major features of the web –enabled data warehouse.	**10**	**L3**	**CO5**

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