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**PRESIDENCY
UNIVERSITY
BENGALURU**

**School of Computer Science and Engineering
Mid - Term Examinations - November 2024**

Semester: VII

Date: 06-11-2024

Course Code: CSE2023

Time: 11.45am to 01.15pm

Course Name: Data Warehouse & its application

Max Marks: 50

Program: B. tech

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Qx2M=10M

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|---|---|---------|----|-----|
| 1 | Define Meta data. | 2 Marks | L1 | CO1 |
| 2 | What are the uses of Data warehouse in organizations? | 2 Marks | L1 | CO1 |
| 3 | Explain about data mart in data warehouse. | 2 Marks | L2 | CO2 |
| 4 | Explain the Functions of back-end tools and utilities used in data warehouse systems. | 2 Marks | L2 | CO2 |
| 5 | Why is data warehouse called as Non-volatile and integrated? | 2 Marks | L3 | CO1 |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

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|---|---|--------|----|-----|
| 6 | a. Define Access tool in data warehouse. | 2Marks | L1 | CO1 |
| | b. Describe different design approach of Data warehouse in real-time. | 3Marks | L2 | CO2 |
| | c. Apply the concept of star schema with Suitable Diagram. | 5Marks | L3 | CO2 |

or

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|---|--|--------|----|-----|
| 7 | a. List the different Benefits of data warehouses. | 2Marks | L1 | CO1 |
| | b. Differentiate between Computing paradigm and Business Paradigm. | 3Marks | L2 | CO1 |

	c.	Demonstrate the concept of snowflake schema with Suitable Diagram.	5Marks	L3	C02
8	a.	List out the different types of data available in data warehouse.	2Marks	L1	C01
	b.	Explain the ETL concept in data warehouse.	3Marks	L2	C02
	c.	Demonstrate Business & design consideration for building a data warehouse.	5Marks	L3	C02
		or			
9	a.	Define Roll-up and Drill-down.	2Marks	L1	C01
	b.	Explain the 2-tier data warehouse architecture with a neat diagram.	3Marks	L2	C01
	c.	Demonstrate Technical & Implementation consideration for building a data warehouse.	5Marks	L3	C02
10	a.	Define OLAP in data warehouses.	2Marks	L1	C01
	b.	Explain the need of data preprocessing in data warehouse.	3Marks	L2	C02
	c.	Demonstrate the generic data model life cycle with a neat diagram.	5Marks	L3	C02
		or			
11	a.	Define a data warehouse and its purpose.	2Marks	L1	C01
	b.	Describe the 3-tier data warehouse architecture.	3Marks	L2	C02
	c.	Demonstrate the typical OLAP operations in data warehouse.	5Marks	L3	C02
12	a.	Define data mart in data warehouses.	2Marks	L1	C01
	b.	Discuss the role of metadata in the data warehouse architecture.	3Marks	L2	C01
	c.	Demonstrate the concept of ETL (Extract, Transform, Load) and its significance in a data warehouse.	5Marks	L3	C02
		or			
13	a.	Describe different types of data mart in data warehouse.	2Marks	L1	C01
	b.	Explain various Schemas for Multidimensional Data Model in detail.	3Marks	L2	C02
	c.	Demonstrate the differences between join index and bit map index in data warehouse.	5Marks	L3	C02