Roll No.											

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations –December2025

Date: 17 – 12- 2025 **Time:** 01:00pm – 04:00pm

School: SOCSE	**Program:** B. Tech	
Course Code: CSD3424	**Course Name:** Data Warehousing and its Applications	
Semester: V	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**24**	**24**	**26**	**26**	**-**

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. **10Q x 2M=20M**

1.	Define Information Directory.	**2 Marks**	**L1**	**CO1**
2.	Distinguish between Data Mart and Data Warehouse.	**2 Marks**	**L1**	**CO1**
3.	Define cuboid, base cuboid, apex cuboid.	**2 Marks**	**L1**	**CO2**
4.	List the categories of Data Cube measures.	**2 Marks**	**L1**	**CO2**
5.	List the issues resolved at various stages of design.	**2 Marks**	**L1**	**CO3**
6.	Name some role and responsibilities with the data quality framework.	**2 Marks**	**L1**	**CO3**
7.	What are the typical tasks that must be completed overnight in a data warehouse environment?	**2 Marks**	**L1**	**CO3**
8.	Define Text Mining.	**2 Marks**	**L1**	**CO4**
9.	List the applications of time series analysis.	**2 Marks**	**L1**	**CO4**
10.	Define HITS.	**2 Marks**	**L1**	**CO4**

Part B

Answer theQuestions. **Total Marks 80M**

11.	**a.**	Illustrate the business consideration to build the data warehouse.	**10Marks**	**L2**	**CO1**
	b.	Explain the performance consideration to build the data warehouse.	**10 Marks**	**L2**	**CO1**
Or					
12.	**a.**	Explain the Data Warehouse administration and management.	**10 Marks**	**L2**	**CO1**
	b.	Illustrate the technical consideration to build the data warehouse.	**10 Marks**	**L2**	**CO1**

13.	**a.**	Suppose that a data warehouse consists of the three dimensions time, doctor, and patient, and the two measures count and charge, where charge is the fee that a doctor charges a patient for a visit. (a) Enumerate three classes of schemas that are popularly used for modeling data warehouses. (b) Draw a schema diagram for the above data warehouse using one of the schema classes listed in (a). (c) Starting with the base cuboid [day, doctor, patient], what specific OLAP operations should be performed in order to list the total fee collected by each doctor in 2010? (d) To obtain the same list, write an SQL query assuming the data are stored in a relational database with the schema fee (day, month, year, doctor, hospital, patient, count, charge).	**10 Marks**	**L2**	**CO2**
	b.	Illustrate Partial Materialization with example.	**10 Marks**	**L2**	**CO2**
Or					
14.	**a.**	Explain different Multi dimensional Data Model with example.	**10 Marks**	**L2**	**CO2**
	b.	Discuss various OLAP operations in a Data Warehouse.	**10 Marks**	**L2**	**CO2**

15.	**a.**	Illustrate the planning for the Data Warehouse.	**10 Marks**	**L2**	**CO3**
	b.	Illustrate the usual provisions found in the security policy of a data warehouse.	**10 Marks**	**L2**	**CO3**
Or					
16.	**a.**	Discuss the issues in outsourcing and in-house development for a data warehouse project.	**10 Marks**	**L2**	**CO3**
	b.	Explain the importance of overnight processing.	**10 Marks**	**L2**	**CO3**

17.	**a.**	Explain the applications of Data Mining.	**10 Marks**	**L2**	**CO4**
	b.	Discuss Multimedia Data Mining with example.	**10 Marks**	**L2**	**CO4**
Or					
18.	**a.**	Explain Text Mining with example.	**10 Marks**	**L2**	**CO4**
	b.	Illustrate different type of data ware applications across different industries.	**10 Marks**	**L2**	**CO4**