HT NO:	7 R	

# CMR TECHNICAL CAMPUS

# **UGC AUTONOMOUS**

B. Tech. V Semester Regular End Examinations, Dec-2022

## Data Analytics Common to CSM & CSD

Time: 3 Hours

Max. Marks: 70

i. This Question paper contains Part- A and Part- B.

ii. All the Questions in Part A are to be answered compulsorily.

iii. All Questions from Part B are to be answered with internal choice among them.

#### PART-A

 $10 \times 02 = 20 \text{ Marks}$ 

		Marks	CO	$\mathbf{BL}$
1. a	is data dunity analysis!	2 2	CO1 CO1	L1 L1
c	List the types of data used in Analytics.  Define missing imputations.	2	CO2	L4
d		2	CO2	L1
e	Define BLUE property. Write two differences between correlation and regression.	2	CO3	L1
f		2	CO3	L2
g	Why unsupervised learning. Write about over fitting.	2	CO4	L1
h		2	CO4	L2
i j	How do you visualize data? List the types of data visualization charts.	2 2	CO5 CO5	L2 L4

### PART-B

			$5 \times 10 = 50 \text{ Marks}$		
			Marks	CO	$\mathbf{BL}$
2.	a b	Explain different types of data processing methods.  Describe missing values.	7	CO1	L4
•		OR	3	CO1	L4
3	a b	What is Data Applications to various Business Domain? Describe the Model Theory & Model Fit Statistics.	5	CO1	L1
		and theory & wioder the statistics.	5	CO1	L3
4	a b	Define predictive analytics. Compare reporting and analytics.	5 5	CO2	L1
_		OR	,	CO2	L4
5	a b	What is cluster analysis? Write short notes on time series?	4	CO2	L1
		out will outloo.	6	CO2	L4
6	a b	Explain the concept of regression.  Write any three differences between correlation and	4	CO3	L3
		regression.	6	CO3	L4

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OR

7	a	Explain least square estimation.	1	CO3	
,	b	Describe the advantages and disadvantages of linear regression model.	6	CO3	
0			2	204	
8	а	What is decision tree?	2	CO4	$L\chi$
	b	Illustrate the process of building a tree.	8	CO4	L2
		OR			
9	a	What is supervised learning?	2	CO4	Ll
	b	Explain types of supervised machine learning techniques.	8	CO4	L4
10	a	What is pixel-oriented visualization techniques?	4	CO5	L1
	b	Discuss about pixel oriented visualization techniques.	6	CO5	L2
	U	OR	O		L-Z
11	a	What is Icon Based Visualization Techniques?	5	CO5	L1
	b	Explain various Hierarchical data visualization techniques.	5	CO5	L2

CO : Course Outcomes

BL : Bloom's Taxonomy Levels

L 1: Remembering

L 2: Understanding

L 3: Applying

L 4: Analysing

L 5: Evaluating

L 6: Creating

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## **CMR TECHNICAL CAMPUS**

## **UGC AUTONOMOUS**

# B. Tech. V Semester Regular& Supply End Examinations, January-2024 Data Analytics Common to CSG,CSD&CSM

Time: 3 Hours Max. Marks: 70

#### Note

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

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#### PART-A

 $10 \times 02 = 20 \text{ Marks}$ 

			N	<b>Iarks</b>	СО	BL
1.	a	What is data Integration?		2	CO1	L1
	b	What is data Cleaning?		2	CO1	L1
	c	What is modelling in Data Analytics?		2	CO2	L1
	d	Explain various steps involved in analysis.		2	CO2	L2
	е	Define variable rationalization.		2	CO3	L2
	f	What is model building?		2	CO3	L1
	g	Why supervised learning.		2	CO4	L4
	h	What is pruning?		2	CO4	L1
	i	Write about data visualization?		2	CO5	L1
	j	Compare Bar chart and Histogram.		2	CO5	L4

#### PART-B

 $5 \times 10 = 50 \text{ Marks}$ 

			Marks	CO	BL
2.	a	Discuss briefly various sources of generating data for data analytics.	5	CO1	L2
	b	What are missing and duplicate values?  OR	5	CO1	L2
3	a b	Explain briefly about data pre-processing.  Discuss the need for pre-processing the data.	5 5	CO1 CO1	L2 L2
4	a b	How to impute missing data? Discuss about the types of data and variables used in	2 8	CO2 CO2	L2
		analytics. OR	2	000	1.5
5	a	Why is data Analytics important?	2	CO2	L5

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	b	Define business modelling and discuss the need for business modelling.	8	CO2	L2	
6	a	Explain the steps involved in constructing an efficient model.	5	CO3	L3	
	b	Write a brief note on Model fit statistics. OR	5	CO3	L2	
7	a	Explain various types of data modelling techniques.	5	CO3	L2	
	b	Discuss in detail about the different types of regression models.	5	CO3	L4	
8	a	What is segmentation in data analysis?	5	CO4	L1	
	b	Explain the techniques of segmentation.  OR	5	CO4	L3	
9	a	What is unsupervised learning?	3	CO <sub>4</sub>	L1	
	b	Explain types of unsupervised machine learning techniques.	7	CO4	L1	
1	<b>0</b> a	Write a short note on Chernoff face	3	CO5	L1	
	b	Explain about geometric projection visualization techniques.  OR	7	CO5	L4	
1	1 a	How is data visualization used?	3	CO5	L1	
	b	Write useful ways to visualize your data with examples.	7	CO5	L2	

CO : Course Outcomes

BL : Bloom's Taxonomy Levels L 1 : Remembering L 2 : Understanding

L 3 : Applying L 4 : Analysing

L 5 : Evaluating L 6 : Creating

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