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THARUFI COLLEGE OF
ENGINEERING & TECHNOLOGY
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END SEMESTER EXAMINATION, MAY 2023 S. E. /S.T. SEMESTER IV (CBCGS-HME 2020)

Branch:	Artificial Intelligence and Data Science	Q.P. Code:	Т2415003-3	
Subject:	Introduction to Data Science	Duration:	2 hours	
Subject Code:	PCC- AIDS402	Max. Marks:	60	

Instructions:

- 1. All sections are compulsory
- 2. Figures to the right indicate full marks.
- 3. Assume suitable data if necessary and state the assumptions clearly.

Sect	tion-I Short Answer Questions (Answer any 05 questions ou (Fundamental, Core Types)	t of 06)		(10 N	larks)
Q. No.		Marks	со	RBT Level	PI
1	Explain the importance of Data Science?	2	1	U	1.3.1
2	What are types of Data Analytics.	2	1	U	1.3.1
3	What are the Various applications of Data Science?	2	1	R	1.1.1
4	How Data Science Process the Model?	2	1	A	2.1.3
5	Write short note on Standardizing of data.	2	2	AN	3.1.1
6	What is Regression Technique.	2	3	R	1.1.1
Secti	on-II Descriptive Answer Questions (Answer any 04 out of 06 (Descriptive, Comprehension Types)	5)		(20	Marks)
1	What is EDA? Explain with suitable Example	5	2	A	2.1.3
2	What is Un-supervised machine Learning? Explain Clustering Techniques	5	3	U	1.3.1
3	What is Outliers? Explain various method to handle outliers.	5	4	R	1.1.1
1	Explain Boxplot with neat labelled Diagram?	5	5	A	2.1.3
5	What is Data analytics? Explain the Application of analytics in healthcare.	5	6	R	1.1.1
,	Explain the application of analytics in Business	5	6	R	1.1.1
ectio	on-III Long Answer Question (Answer any 03 out of 05) (Application, Analytical, Evaluation, Design Type)			(3	0 Mark
	What is Data Processing? Explain different stages in Data Processing with flow diagram	10	2	U	1.3.1
	What is Machine Learning? Explain Supervised Machine Learning with example?	10	3	R	1.1.
	What is Dimensionality Reduction Techniques? Explain Features Selection?	10	4	A	2.1.
	Describe the Importance of Data Visualization? Explain types of charts used in Data Visualization.	10	5	AN	3.1.
	Describe PCA in detail and steps of working principal	10	4	E	2.2.