ज्ञानेन प्रकाशते जगत्
INDUS
UNIVERSITY

Enrollment No: _	10 10 10
	INDUS UNIVERSITY
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X- CE0630-001

Semester:	6 th			
	0	Branch:	CE/IT/CSE	
	FND SEMECTED EX	ABWA	OL/11/CSE	
	LING GENESTER EX	AMINATION - May-202	3	
Subject Code:	CE0630			
	CE0030	Subject Name:	Data Science	
Date:	17/05/2023		- atta ocience	
10 N	17/05/2023	Time:	3 Hrs. 2:00 PM TO 5:00PM	
Day:	Wednesday	The state of the s	1113. 2:00 PM TO 5:00P	
		Total Marks:	100	

Instructions:

- 1. Attempt all questions
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicates full marks
- 4. Questions shall be drawn in accordance with the unit numbers as given below, However Breakup of Questions are allowed:

Q.1	A	Define Data Science. Discuss Data Science Process with diagram.	
	В	Differentiate Data Science and Business Intelligence with suitable example.	
Q.2	A	example.	
		Calculate Sample Skewness and Sample Kurtosis from the following grouped data	10
		Class Frequency 2-4 3	
		4-6 4 6-8 2	
	В	8-10 1	
	Ь	Consider given 8 Data Points as a Sample. Data (in Terms of Minutes)	10
		/2, 110, 134, 190, 238, 287, 205, 204	
		Apply Descriptive Statistic Analysis in form of Variability Like Range, Interquartile Range, Standard Deviation, and Variance.	
2.3	A	Differentiate Supervised, Unsupervised and Reinforcement Machine Learning Types.	
	В	Define Machine Learning. Discuss entire Machine Learning Process Steps.	10
		oteps.	10

Data Collection, Cleaning, Malysis Model Training, Testing, Deplayment

A	What is the Connection between Data Science and Ethics?	10
В	Explain Visualization Technique. Discuss any two Data Visualization Library in Python.	10
	Any Four (05*4=20)	20
A		05
В	Explain Classification Technique in Supervised Machine learning.	05
С		05
D		05
E	How do we care about Data Science Ethics?	05
F	Discuss any two framing guidelines in Five Cs.	05
	B A B C D	Explain Visualization Technique. Discuss any two Data Visualization Library in Python. Any Four (05*4=20) A Discuss Regression Techniques with suitable Example. Explain Classification Technique in Supervised Machine learning. C Discuss any one Clustering Technique in Unsupervised learning. D Discuss KNN (K-Nearest Neighbour) Algorithm with suitable example. E How do we care about Data Science Ethics?

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