Date: 28 / 03 /2023

Timing: 10 to 11 Am

Maximum Marks: 20



Zaydu Single Charitable 'Trust's (Reyd.)

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Autonomous College Affiliated to University of Mumbai Approved by All India Council for Technical Education(AICEE) and Government of Maharashtra(GoM)

Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20
Amongst Top 200 Colleges in the Country, Ranked 197 in MIRF India Ranking 2019 in Engineering College category

*ISO 9001: 2015 Cartified * Imagrammus Accordized by National Sussel of Accordization (NUA), New Diffs

. Institute According by National Assessment and Accordination Council (NAAC), Bangalone

IN-SEMESTER EXAMINATION (ISE-II) Mar, 2023 SE (Semester-IV) CBCGS-HME 2020 INTRODUCTION TO DATA SCIENCE

Branch: AI & DS

Div.: A

Duration: 60 Minutes

Instructions -

1. All questions are compulsory.

- 2. Assume suitable data wherever necessary and state the assumptions made.
- 3. Diagrams / sketches should be given wherever necessary.
- 4. Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
- 5. Figures to the right indicate full marks

01		Solve any 5 Questions.	Marks	СО	LO
Q.1	-	Draw diagram of Reinforcement Machine Learning.	02	3	C
	a.	Explain in short: Association Technique.	02	3	U
	b.	Elaborate some Feature selection techniques in Python.	02	4	R
	c.		02	4	U
	d.	Explain Boxplot.	02	4	R
	e.	Explain the correlation between Intrinsic and Wrapper method	02	4	U
	f.	Explain 3 ways of Reducing Dimensionality? Explain role of Regression Technique in Machine Learning	02	3	U
	g.	Explain role of Regression Technique in Machine Desired			
Q.2.	a.	What is Unsupervised Machine Learning? Explain Clustering.	05	3	U
		OR			
	h	Explain working principles of Factor Analysis	05	4	U
Q.3	a.	Calculate Correlation Between Two Columns in Pandas,	05	4	A
		OR			
	b. What is Supervise Machine Learning? Explain Classification technique 05 with Example		anique 05	3	U