

Code No: R22A6707

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Regular Examinations, November 2024**Introduction to Data Science****(CSE-AIML & B.Tech-AIML)**

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Time: 3 hours**Max. Marks: 60****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 10 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer **FIVE** Questions,
Choosing ONE Question from each SECTION

<u>PART-A (10 Marks)</u>			BCLL	CO(s)	Marks
<u>(Write all answers of this part at one place)</u>					
1	A	What is novelty of data science?	L1	CO-I	[1M]
	B	What is the significance of Sample Variance?	L2	CO-I	[1M]
	C	List the most common steps for data preparation	L1	CO-II	[1M]
	D	What is data preparation?	L1	CO-II	[1M]
	E	Why L2 weight regularization is used for?	L2	CO-III	[1M]
	F	What is soft margin in SVM?	L2	CO-III	[1M]
	G	What is the outcome of Silhouette Score?	L2	CO-IV	[1M]
	H	List the disadvantages of overfitting.	L2	CO-IV	[1M]
	I	What is the significance of PageRank?	L2	CO-V	[1M]
	J	What is Community toolbox?	L1	CO-V	[1M]
<u>PART-B (50 Marks)</u>					
<u>SECTION-I</u>					
2	A	Explain in detail about Jupyter Notebook Environment	L1	CO-I	[5M]
	B	Explain the various Fundamental Python Libraries for Data Scientists	L2	CO-I	[5M]
OR					
3	A	List of most common aggregation functions	L1	CO-I	[5M]
	B	Explain Integrated Development Environments (IDE) using Python.	L3	CO-I	[5M]
<u>SECTION-II</u>					
4	A	Write short notes on Exploratory Data Analysis	L1	CO-II	[5M]
	B	What is confidence interval? What is the impact of it?	L3	CO-II	[5M]
OR					
5	A	Explain in detail about the process involved in data preparation	L1	CO-II	[5M]
	B	Write short notes on Descriptive statistics	L2	CO-II	[5M]

