

Guru Nanak Dev Engineering College, Ludhiana			
Department of Computer Science & Engineering			
Program	B.Tech.(CSE)	Semester	8 th
Subject Code	PECS-119	Subject Title	Data Science
Mid Semester Test (MST) No.	2	Course Coordinator(s)	Dr. Inderjit Singh
Max. Marks	24	Time Duration	1 hour 30 minutes
Date of MST	31 st , May 2022	Roll Number	

Note: Attempt all questions

Q. No.	Question	COs, RBT level	Marks
Q1.	How variance differs from standard deviation for data set values?	CO1, L1	2
Q2.	Examine dependent and independent variables with example.	CO2, L4	2
Q3.	Interpret normal distribution plot with its characteristics and deviations.	CO3, L2	4
Q4.	Illustrate dimensionality and feature selection with suitable example.	CO3, L2	4
Q5.	Distinguish b/w: a) Over fitting and Under-fitting b) Accuracy and Precision	CO5, CO6 L4	4
Q6.	Justify with example the importance of <i>Exploratory Data Analysis</i> (EDA) in detail. How to handle missing values and outliers in data set?	CO4, L5	8

Course Outcomes (CO)

Students will be able to

1.	Analyze the need and usage of various facets of data.
2.	Examine the steps for Data collection and Data Science process.
3.	Identify and apply various forms of representing data.
4.	Perform exploratory data analysis.
5.	Understand and apply various visualization techniques.
6.	Demonstrate and enrich knowledge for various model validation techniques.

RBT Classification	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)		
RBT Level Number	L1	L2	L3	L4	L5	L6
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating