

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.	1	Course Coordinator(s)	Dr.Inderjit Singh
Max. Marks	24	Time Duration	1 hour 30 minutes
Date of MST	28 th March,2022	Roll Number	1805158

Note: Attempt all questions

Q. No.	Question	COs, RBT level	Marks
Q1	What are Big Data and Data Science? Explain briefly.	CO1, L1	2
Q2	Compare Data Science and Business Intelligence with example.	CO1, L4	2
Q3	Explain Big Data Growth issues and challenges in detail.	CO4, L2	4
Q4	Illustrate Data cleansing and transformation steps with suitable example.	CO3, L2	4
Q5	Distinguish between NoSQL databases and SQL Data bases.	CO4, L4	4
Q6	Explain the steps involved in data science process in detail.	CO2, 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