Guru Nanak Dev Engineering College, Ludhiana			
Department of Computer Science & Technology			
Program	B.Tech.(CSE)	**Semester**	8(A,B,C)
Subject Code	PECS-118	**Subject Title**	Big Data
Mid Semester Test (MST) No.	1	**Course Coordinator(s)**	Hardeep Singh Kang
Max. Marks	24	**Time Duration**	1 hour 30 minutes
Date of MST	21st March, 2022	**Roll Number**	1805158

Note: Attempt all questions

Q. No.	Question	COs, RBT level	Marks
Q1	Discuss state of practice in current analytical architecture?	CO5, L1	2
Q2	Analyze briefly various V's of big data?	CO1, L4	2
Q3	Compare and contrast Data at rest vs Data at motion. Also discuss various types of Data Structures of Big Data?	CO3, L2	4
Q4	Illustrate various configuring modes for handling Hadoop cluster? Also briefly discuss various XML files required for configuring Hadoop?	CO5, L2	4
Q5	Discuss in detail various steps required to perform write operation in HDFS?	CO6, L6	4
Q6	Explain in detail various deamons/building blocks in Hadoop. What is check pointing? Explain briefly role of Ambari in Hadoop?	CO5, L5	8

Course Outcomes (CO)
Students will be able to

1	Apply knowledge of statistics, science and programming skills, to solve of complex analytical problems related to big data and business analytics.
2	Identify, formulate, and analyse business analytical problems concerning and demanding big data.
3	Design and evaluate fully distributed model of big data to solve real time problems.
4	Make use of research-based knowledge to identify the appropriate data collection methods, apply statistical methods to analyse, synthesis and interpretation of data, to provide valid conclusions.
5	Utilise knowledge of modern tools such as Hadoop, NoSQL, and Artificial intelligence techniques to propose solutions for business analytic demands.
6	Function in multi-disciplinary teams through groups while working on mini-project concerning business analytical problems.

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