AHMEDABAD UNIVERSITY
School of Engineering and Applied Science
2025-2026 Monsoon

CSC521 Big Data Analytics
End-Term Examination
Wednesday 02 January 2026. 14:00 – 16:00

Name:	Roll no.	A U 2								Marks

/50

A.	**Answer the following questions in short (Any 5).**	***(20)***
1	What is big data? Explain about structured, semi-structured and unstructured data.	
2	Describe HIVE data model.	
3	Processing in spark is faster than Hadoop. Is this statement true or false? Justify your answer with proper arguments.	
4	What is RDD? What are the different features of RDD?	
5	Describe map-reduce with example.	
6	Describe the following terms of confusion matrix. - True Positive - True Negative - False Positive - False Negative	
B.	**Answer the following questions in detail (Any 6).**	*(30)*
1	What are the 4Vs in BDA. Explain them in detail.	
2	Explain the procedure of HDFS write with example.	
3	List different type of NoSQL databases. Explain any two of them in detail.	
4	What is simple linear regression? Explain gradient descent for linear regression.	
5	Explain the followings: ○ MongoDB Collections ○ MongoDB Database ○ MongoDB Documents ○ MongoDB Namespace.	
6	How jobs are executed in HIVE? Explain in detail.	
7	Explain architecture of SPARK in detail.	

********** **BEST OF LUCK** **********