SYNERGY INSTITUTE OF ENGINEERING AND TECHNOLOGY, DHENKANAL

NBA Accredited

Assignment 2

Near NH-55, Banamali Prasad – 759001

Full Marks – 40 Duration 1 week from notification

Roll no- Registration no- Name:

Subject with Code: Big Data Integration and Management (BDIM) PCAC2009

Course & Branch : B.Tech : CE, EE, CS Year & Semester: 2nd & IV

	Section- A . Answer All questions	
1	What do you mean by Data Architecture in Big Data?	[2marks][CO2][L1]
2	What is the role of Networking in Big Data infrastructure?	[2marks][CO2][L1]
3	What is HP Vertica? How is it useful in Big Data analytics?	[2marks][CO2][L2]
4	What is Redis? Why is it significant in Big Data?	[2marks][CO2][L2]
	Section-B Answer All Questions	
1	What is Impala, and how does it enhance Big Data querying? Compare it with SparkSQL ? Explain	[6marks][CO2][L2]
2	Explain Big Data Integration & its importance with examples.	[6marks][CO2][L2]
	Section-C Answer All Questions	
1	Describe MongoDB and its role in Big Data processing. How does it integrate with Spark?	[10 Marks][CO2][L2]
2	Explain Neo4j and its significance in handling graph-based Big Data applications	[10 Marks][CO2][L2]
	Additional Questions	
1	Explain the challenges in designing a Big Data system and their possible solutions.	[2marks][CO2][L2]
2	Describe the differences between traditional and big data management systems with suitable examples.	[2marks][CO2][L2]
3	What are the different techniques for retrieving Big Data, and how do they impact performance?	[2marks][CO2][L2]