	Reg. No. :	
Question Paper Code: 99242		
B.E./B.Tech. DEGREE EXAMINATION, NOV 2024		
Elective		
	Computer Science and Engineering	
	19UCS942 -BIG DATA ANALYTICS	
(Régulations 2019)		
Dura	ation: Three hours Maximum: 10	0 Marks
	Answer All Questions	
PART A - $(10 \text{ x } 2 = 20 \text{ Marks})$		
1.	What is Big Data? Why Big Data?	CO1-U
2.	DFS can handle a large volume of data then why do we need Hadoop framework?	CO1-U
3.	How is the DataNode failure handled by NameNode?	CO1-U
4.	What is the fundamental difference between a MapReduce Split and a HDFS block?	CO1-U
5.	How to Create a Database in MongoDB?	CO1-U
6	List out the any 4 advantages of MongoDB.	CO2- App
7	How to Install the MongoDB on Windows?	CO1-U
8	What are the Benefits of big data	CO1-U
9	How big data analysis helps businesses increase their revenue? Give example.	CO2- App
10	What are the main components of MapReduce Job?	CO2- U
	PART – B (5 x 16= 80Marks)	
11.	(a) Why is big data important and describe some of the big data use CO1 cases	-U (16)
	Or (b) Briefly explain the Components of hadoop and application CO1 development in Hadoop	-U (16)

12. (a) Imagine that you are uploading a file of 500MB into CO2-App (16) HDFS.100MB of data is successfully uploaded into HDFS and another client wants to read the uploaded data while the upload is still in progress. What will happen in such a scenario, will the 100 MB of data that is uploaded will it be displayed?

Or

- (b) If 8TB is the available disk space per node (10 disks with 1 TB, 2 CO2-App (16) disk for operating system etc. were excluded.)and assuming initial data size is 600 TB. How will you estimate the number of data nodes (n)?
- 13. (a) Outline the steps involved to install and configure the MongoDB CO1-U (16) in Ubundu.

Or

- (b) Explain in details about the CRUD Operations with examples. CO1-U (16)
- 14. (a) What are the data types in MongoDB? Explain the process of CO1-U (16) Sharding.

Or

- (b) What is the difference between MongoDB and MySQL? Explain CO1-U (16) the use of MongoDB?
- 15. (a) To write a query for insert the document in MongoDB CO2-App (16) Collection and pass an array of documents into their insert() methods.

Or

(b) To creates a new collection named empDetails and inserts a CO2-App (16) document using the insertOne() method and also inserts a multiple document using the insertMany().