Reg. No.																
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Question Paper Code

12797

M.E./M.Tech - DEGREE EXAMINATIONS, APRIL / MAY 2024

Second Semester

M.E. - BIG DATA ANALYTICS 20PBDPC204 - NoSQL DATABASE TECHNIQUES

Regulations - 2020

I	Durati	Max. Marks: 100					
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions				K – Level	co		
1.	Defin	ne MongoDB.	2	K1	CO1		
2.	Defin	ne Eventual Consistency.	2	K2	CO1		
3.	3. Illustrate the concept of Map Reduce on databases.						
4.	4. State Sharding in database.						
5.	5. State Consistency in NoSQL.						
6.	6. Name some features of Apache Cassandra.						
7.	7. List out the Key-Value Store Features in NoSQL.						
8.	8. Define the concept of Preferences in NoSQL.						
9.	9. List out the Query Features of Graph Database design.						
10.	10. Name some of the uses of Routing in Graph database.				CO5		
11.	a)	PART - B ($5 \times 13 = 65$ Marks) Answer ALL Questions Elaborate the RDBMS approach with its architecture.	13	K2	CO1		
		OR					
	b)	Explain in detail about the Key-Value of Document Data Models an Aggregate functions in NoSQL.	d 13	K2	CO1		
12.	a)	Illustrate the Distribution Models with examples. OR	13	K2	CO2		
	4		. 12	1/2	G02		
	b)	Describe in detail about the use cases of Web Analytics wit examples.	h ¹³	K2	CO2		
13.	a)	Explain in detail about the architecture of HBASE and give it applications with example.	is 13	K2	CO3		
		OR					

Describe in detail about the Content Management Systems with 13 K2 CO3 b) example. Emphasize the significance of NoSQL Key/Value databases with 13 K2 CO4 14. example. OR Elaborate the concepts of Multi operation Transactions and Query by 13 K2 CO4 b) Data with example. Outline the features of Graph NoSQL databases using Neo4 with 13 K2 CO5 15. example. OR Explain in detail about Recommendation Engines with example. 13 K2 CO5 b) PART - C $(1 \times 15 = 15 \text{ Marks})$ 15 K3 CO6 16. a) Illustrate the following. i) Create a node using Cypher. ii) Create a Relationship using Cypher. iii) Select data with MATCH using Cypher. OR b) i) Illustrate the steps in creating a node and setting up the relation with 8 K3 CO6 the nodes with example. ii) Import the data from a CSV file with and without Headers? K3 CO6