Reg. No. :

Question Paper Code: 95Q04

M.E. DEGREE EXAMINATION, MAY 2022

Elective

Computer Science and Engineering

19PCS504 - BIG DATA ANALYTICS

(Regulation 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) What are the differences that separate out big data architecture   CO1- App   (20)
         from the Traditional one?

                                        Or

    (b) Describe cases where social network analysis is used to detect   CO1- App   (20)
         fraud

2. (a) Differentiate between SQL VsNoSQL and explain it with   CO2- U   (20)
         suitable example

                                        Or

    (b) Explain CAP theorem with its diagram   CO2- U   (20)

3. (a) What is HDFS? Illustrate the major blocks in HDFS   CO3- U   (20)
         architecture

                                        Or

    (b) What is Data flow Model? Discuss different kinds of Data flow   CO3- U   (20)
         Models.

4. (a) Write Map Reduce Pseudocode to multiply two matrices   CO4- App   (20)
         Illustrate the procedure on the following matrices

         $A = \begin{matrix} 1 & 2 \\ 2 & 1 \\ 3 & 4 \end{matrix}$ $B = \begin{matrix} 1 & 2 \\ 1 & 3 \end{matrix}$

                                        Or

(b)	Consider a collection of literature survey made by a researcher in the form of a text document with respect to cloud and big data analytics. Using Hadoop and Map Reduce, write a program to count the occurrence of pre dominant key words.	CO4- App	(20)

5.   (a)   Describe features of Cassandra and its tunable consistency   CO5- App   (20)

Or

    (b)   What do you mean by HiveQL Data Definition Language? Illustrate any three HiveQL DDL command with its syntax and example   CO5- U   (20)

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