

28/12/2023

Time: 03 Hours

Marks: 80

- Note: 1. Question 1 is compulsory
2. Answer any three out of the remaining five questions.
3. Assume any suitable data wherever required and justify the same.

- Q1 a) What is Hadoop and Why it Matters. [5]
b) Compare traditional database and big data. [5]
c) Explain CAP theorem. State how it is different from ACID properties. [5]
d) Compare DBMS VS DSMS. [5]
- Q2 a) Draw Hadoop Ecosystem and briefly explain its components. [10]
b) Explain the four types of NoSQL database. [10]
- Q3 a) Explain architecture of Big data and give characteristics of it. [10]
b) Explain DGIM algorithm. [10]
- Q4 a) List the main components of Mapreduce execution pipeline. [10]
b) Explain cure algorithm. [10]
- Q5 a) What is Recommender System? Explain Types of recommender system. [10]
b) What is a Social Network? Give Varieties of Social Networks and the need for social network graph. [10]
- Q6 a) Explain with example two major classes of distance measures. [10]
b) Explain the structure of web with suitable diagram. [10]