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Question Paper Code: U2303

M.E. DEGREE EXAMINATION, NOV 2024

Second Semester

Computer Science and Engineering

21PCS203 - BIG DATA ANALYTICS

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 20 = 100 Marks)

1. (a) Explain the key factors imposed by Business Intelligence on banking financial service and insurance. CO1- U (20)
Or
(b) Describe the fraud and Risk of Big data. Describe cases where social network analysis is used to detect fraud with relevant examples. CO1- U (20)
2. (a) With suitable example differentiate the applications, structure, working and usage of different NoSQL databases. CO1- U (20)
Or
(b) Explain the significance of sharding and replication in distributed data models. CO1- U (20)
3. (a) Explain in detail about Hadoop input and output operations. CO1- U (20)
Or
(b) What is Data flow Model? Discuss different kinds of Data flow Models. CO1- U (20)
4. (a) 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. CO2- App (20)
Or
(b) Apply Map Reduce algorithm for Natural Join of two relations. CO1- U (20)

5. (a) Explain Pig data Model in detail and Discuss how it will help for effective data flow with an application. CO1- U (20)

Or

(b) Explain in detail Storage mechanism in HBase. Compare Row oriented and Column Oriented database structures. How will you design or modify schema in HBase programmatically? CO1- U (20)