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School of Computing Science and Engineering

Bachelor of Science in Computer Science
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - E1UJ502B - Big Data Technologies

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) What are the different applications of BDA. Explain in detail K1 (2)
- 2) Explain Hadoop YARN? K2 (4)
- 3) Explain the importance of data security in Big Data analytics and identify potential vulnerabilities in the data pipeline? K2 (6)
- 4) Briefly describe with an example how effectively you can communicate through an example of supply chain management the insights and findings from a Big Data analytics project to non-technical stakeholders in a clear and concise manner? K3 (9)
- 5) Draw HDFS Architecture. Explain any two commands of HDFS from following commands with syntax and at least one example of each. (i) copyFromLocal (ii) setrep (iii) checksum K3 (9)
- 6) Explain the purpose of "MapReduce Partitioner" ? K5 (10)
- 7) Define Data node? How does name node tackle data node failures? K4 (12)
- 8) Discover the situation to use SequenceFileInputFormat with the help of proper illustration? K5 (15)
- 9) Differentiate mapping & reducing. K5 (15)
- 10) Discuss Pig Latin Application Flow K6 (18)