

ADMISSION NUMBER											

K1 (2)

School of Business

Integrated Bachelor of Business Administration - Master of Business Administration Semester End Examination - Nov 2023

Duration : 180 Minutes Max Marks: 100

1)

Sem IX - MBBA6004 - Big Data Analytics

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

- Explain the advantages of NoSQL databases. 2) K2 (4) Explain the components of the Hadoop ecosystem and their functions. 3) K2 (6) Create a set of advanced HiveQL queries to perform complex data manipulations and aggregations. K3 (9) 4) Design a security framework for protecting data stored in Hadoop and HBase from unauthorized access. K3 (9) 5) Discuss the security measures and data integrity in NoSQL database systems. K5 (10) 6) Create a project plan for implementing a real-time analytics platform using HBase and Spark. K4 (12) 7) Optimize the data storage and retrieval performance of Hadoop clusters with the help of caching mechanisms. 8) K5 (15) Evaluate the ethical considerations and potential risks associated with the widespread adoption of big data technologies.
- K5 (15) 9) How can Big Data improve customer experience in the retail industry?
- 10) Develop a comprehensive strategy to implement Spark and NoSQL K6 (18) for a real-world business application.