G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.
(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.COM., BUSINESS ANALYTICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
V	PART - III	CORE	U21BA510	BIG DATA ANALYTICS

Date & Session: 11.11.2024 / FN   **Time : 3 hours**   **Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	What are the main components of big data? a) HDFS b) MapReduce c) YARN d) All of the above
CO1	K2	2.	In which language is Hadoop written? a) C++ b) Java c) Rust d) Python
CO2	K1	3.	Mapper class is _____. a) Static type b) Generic type c) Abstract type d) Final
CO2	K2	4.	On which of the following platforms does Hadoop run? a) Debain b) Cross-platform c) Bare metal d) Unix-like
CO3	K1	5.	_____ has a design policy of using ZooKeeper only for transient data. a) Hive b) Imphala c) Hbase d) Oozie
CO3	K2	6.	Which of the following function is used to read data in PIG? a) WRITE b) READ c) LOAD d) None of the mentioned
CO4	K1	7.	In MongoDB, a record is equivalent to a _____. a) Row b) Table c) Document d) Database
CO4	K2	8.	Which NoSQL database type is best suited for social networking applications? a) Key-Value b) Document c) Graph d) Object - Oriented
CO5	K1	9.	Which is CQL stands for? a) Commit Query Language b) Cluster Query Language c) Component Query Language d) Cassandra Query Language
CO5	K2	10.	Which of the following is the command to run queries in CQLSH. a) execute () b) run () c) run query () d) execute query ()
Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer ALL Questions choosing either (a) or (b)
CO1	K3	11a.	Find the characteristics of big data.
			(OR)
CO1	K3	11b.	Identify the various components of Hadoop Ecosystem.
CO2	K3	12a.	Find the components of Map Reduce Architecture with neat sketch.
			(OR)
CO2	K3	12b.	Identify the ways to chain MapReduce jobs in Hadoop.

Course Outcome	Bloom's K-level	Q. No.	
CO3	K4	13a.	Analyse the various services provided by Hive.
			(OR)
CO3	K4	13b.	Categorize the various HiveQL querying operations in Hive.
CO4	K4	14a.	Analyse the important features of MongoDB.
			(OR)
CO4	K4	14b.	Examine the Mongoimport and Mongoexport command.
CO5	K5	15a.	Assess the various types of Cassandra Datatypes.
			(OR)
CO5	K5	15b.	Evaluate the Alter command in Cassandra.

Course Outcome	Bloom's K-level	Q. No.	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Identify the various nodes of an HDFS Architecture.
			(OR)
CO1	K3	16b.	Find the different HDFS commands used for loading and getting data.
CO2	K4	17a.	Categorize the different phases in Map Reduce.
			(OR)
CO2	K4	17b.	Analyse the methods to join data from different sources in Hadoop MapReduce.
CO3	K4	18a.	Categorize the various applications on Bigdata using pig and Hive.
			(OR)
CO3	K4	18b.	Examine HBase Data Model in detail.
CO4	K5	19a.	Evaluate the operations of CRUD in MongoDB.
			(OR)
CO4	K5	19b.	Assess the various functions of MongoDB with example.
CO5	K5	20a.	Determine the various TTL commands in Cassandra.
			(OR)
CO5	K5	20b.	Evaluate Cassandra CQLSH.