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Sub Code:KCS-061

Roll No.

B.TECH (SEM VI) THEORY EXAMINATION 2022-23 BIG DATA

Time: 3 Hours Total Marks: 100

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

Attempt all questions in brief.

 $2 \times 10 = 20$

- List any five big data platforms. (a)
- Discus the importance of hadoop technology in big data analytics. (b)
- (c) Explain three benefits of MapReduce.
- (d) Define heartbeat in HDFS.
- Define data replication in Hadoop distributed file system. (e)
- Differentiate between flume and Sqoop. (f)
- Compare and Contrast No SQL relational databases. (g)
- Explain briefly about the schedulers. (h)
- Differentiate between Pig and MapReduce. (i)
- **(j)** Discuss meta store in HIVE in brief.

SECTION B

2. Attempt any three of the following:

- (a) Explain Hadoop ecosystem in detail.
- (b) Discuss Master Slave and Peer-Peer replication in detail.
- (c) Examine the process of reading and writing data in HDFS by a client.
- (d) Explain how CRUD operations with example are performed in MongoDB.
- (c) Draw and explain the detailed architecture of HIVE.

SECTION C

Attempt any one part of the following:

10x1=10

- (a) Detail about the analysis vs. reporting while introducing the Big Data
- (b) Elaborate various components of Big Data architecture.

Attempt any one part of the following: 4.

10x1=10

- (a) Discuss the detailed architecture of Map-Reduce
- (b) Discuss the detailed architecture of YARN along with its components.

Attempt any one part of the following: 5

10x1=10

- (a) Demonstrate the design of HDFS and concept in detail.
- (b) Discuss in brief about the cluster specification. Describe how to setting up a Hadoop Cluster?

6. Attempt any one part of the following:

10x1=10

- State features of Apache Spark and also explain three ways of how Spark can be built with Hadoop components.
- (b) State difference between Java and Scala. Also explain various features of Scala.
- 7. Attempt any one part of the following:

10x1=10

- (a) Explain the architecture of HIVE. Also explain data flow in HIVE.
- (b) Compare and Contrast
 - (i) Apache Pig vs Map-Reduce
 - (ii) Pig vs SQL
 - (iii) Pig vs HIVE

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