

Written Assignment: Hadoop

- 1) List the use and responsibilities of following tools of Hadoop eco-system
 - a. HDFS
 - b. YARN
 - c. FLUME
 - d. SQOOP
 - e. ZOOKEEPER
 - f. HIVE
- 2) Explain the responsibilities of Name node and Data nodes in HDFS. Differentiate between normal file system with HDFS.
- 3) With diagram show how write operation is performed in HDFS. List the steps to recover from failure during HDFS write operation.
- 4) Explain how HDFS ensures high availability of data and services.
- 5) With diagram show how read operation is performed in HDFS. Explain the steps involved in read operation.
- 6) Explain the terms heart-beat, edit-log and check-points.
- 7) With neat diagram, explain the architecture of HDFS.
- 8) List the major components of YARN. Explain the responsibilities of YARN.
- 9) List out the responsibilities of Resource Manager in YARN.
- 10) Explain different schedulers used in YARN.
- 11) Explain different types of failures in Map-Reduce jobs.
- 12) Give different reasons for task failures in Map-Reduce job. Give the steps for recovering from Application master failures.
- 13) With neat diagram, show how map reduce jobs are executed in Hadoop environment.
- 14) Give the responsibilities of
 - a. Application Master
 - b. Application Manager
 - c. Node Manager
 - d. Resource Manager
- 15) With example, explain Hadoop MapReduce process.