

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April -2019 (Old Course)
INTRODUCTION TO BIG DATA AND HADOOP (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

-
- Que-1 (A) Answer the following questions. (04)
- (1) Full form of 3V in big data.
 - (2) Full form of YARN.
 - (3) Hadoop Written in ____.
 - (4) What is DistCp?
- (B) Answer the following question. (Any one) (02)
- (1) What is Big Data?
 - (2) Difference between Windows and Linux.
- (C) Answer the following question. (Any one) (03)
- (1) Explain Types of Big Data.
 - (2) What is Hadoop?
- (D) Answer the following question. (Any one) (05)
- (1) Explain HDFS Architecture.
 - (2) Explain CRC with example.
- Que-2 (A) Answer the following questions. (04)
- (1) MapReduce has ____ principal phases.
 - (2) Full form of BSP.
 - (3) Pig was developed as a research Project of ____.
 - (4) A bag is a collection of ____.
- (B) Answer the following question. (Any one) (02)
- (1) Explain Container in MapReduce.
 - (2) Explain Features of Pig?
- (C) Answer the following question. (Any one) (03)
- (1) Explain Shuffling and Sorting.
 - (2) Difference between Apache Pig and Mapreduce.
- (D) Answer the following question. (Any one) (05)
- (1) Describe Configuration files in hadoop installation.
 - (2) Explain Architecture of Pig.
- Que-3 (A) Answer the following questions. (04)
- (1) Full form of UDAF.
 - (2) Hive developed by ____.
 - (3) Managed table is also called as ____ table.
 - (4) Hive mainly used for creating ____.
- (B) Answer the following questions. (Any one) (02)
- (1) What is Hive?
 - (2) Explain Metastore.
- (C) Answer the following question. (Any one) (03)
- (1) Difference between External and Managed table in Hive.
 - (2) Explain Different ways of joining data in Mapreduce.

- (D) Answer the following question. (Any one) (05)
- (1) Explain Architecture of Hive.
 - (2) Explain MapReduce Graph Algorithm.
- Que-4 (A) Answer the following questions. (04)
- (1) HBase is a type of _____ database.
 - (2) Full form of WAL is_____.
 - (3) _____ is the default Port of Rest API.
 - (4) HBase Coprocessors- EndPoints is similar to _____ in RDMS.
- (B) Answer the following question. (Any one) (02)
- (1) Difference between HBase and HDFS.
 - (2) Explain Catalog Tables in HBase.
- (C) Answer the following question. (Any one) (03)
- (1) Explain HBase Compaction.
 - (2) Explain Filtering in HBase.
- (D) Answer the following question. (Any one) (05)
- (1) Explain HBase Architecture.
 - (2) Explain Command Line Interface in HBase.
- Que-5 (A) Answer the following questions. (04)
- (1) Full form of RDD is _____.
 - (2) What is Flume?
 - (3) Sqoop is an open source tool written at _____.
 - (4) Full form of EC2 is _____.
- (B) Answer the following question. (Any one) (02)
- (1) What is EMR?
 - (2) What is Sqoop?
- (C) Answer the following question. (Any one) (03)
- (1) Explain Graph processing with Neo4j.
 - (2) Creating workflows in Oozie.
- (D) Answer the following question. (Any one) (05)
- (1) Explain distributed mode in SSH Configuration.
 - (2) Explain Spark Architecture.
