647510 **0304212C2020** **Seat No: _____**

M.Sc.(IT & CA) Semester - 2 (CBCS) Examination
March/April- 2018
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) By default block size in HDFS is _____.	
	(2) To create a directory which command is used?	
	(3) _____ refers to the speed of data processing in 3V?	
	(4) HDFS stands for?	
Que-1 (B)	Attempt any one Question.	(02)
	(1) Explain vertical scaling and horizontal scaling in nosql.	
	(2) Explain Big data with its application.	
Que-1 (C)	Attempt any one Question.	(03)
	(1) Explain any two nosql databases.	
	(2) Explain Block in HDFS.	
Que-1 (D)	Attempt any one Question in detail.	(05)
	(1) Explain 3V in Big Data.	
	(2) Explain read write process in HDFS.	
Que-2 (A)	Answer the following Questions.	(04)
	(1) YARN stands for?	
	(2) ___An collection of tuples.	
	(3) In Hadoop, The default Output Format is _____.	
	(4) To save the relation in HDFS _____ command is used.	
Que-2 (B)	Attempt any one Question.	(02)
	(1) What is map reduce?	
	(2) Explain features of pig.	
Que-2 (C)	Attempt any one Question.	(03)
	(1) Explain Pig architecture in detail.	
	(2) Give the difference between MRv1 and MRv2.	
Que-2 (D)	Attempt any one Question in detail.	(05)
	(1) Explain Data Flow in map reduce.	
	(2) Explain LOAD, STORE and Filter commands in pig.	
Que-3 (A)	Answer the following Questions.	(04)
	(1) In Hive, by default table is?	
	(2) To arrange the data into ascending and descending ____ is used in hive.	
	(3) There are _____ modes in which Hadoop can be installed and run.	
	(4) Default mode of hadoop is ____.	
Que-3 (B)	Attempt any one Question.	(02)
	(1) Explain different modes of hive.	
	(2) Explain data types in hadoop.	
Que-3 (C)	Attempt any one Question.	(03)
	(1) Explain any one optimization techniques in map reduce.	
	(2) How to create table and load the data in hive.	

Que-3 (D)	Attempt any one Question in detail.	(05)
	(1) Explain static and dynamic partition in hive.	
	(2) Explain map reduce join.	
Que-4 (A)	Answer the following Questions.	(04)
	(1) HBASE is ____ types of nosql database.	
	(2) HBASE architecture has _____ main components.	
	(3) In HBASE, DDL operations are handled by the _____.	
	(4) There are _____ types of compaction.	
Que-4 (B)	Attempt any one Question.	(02)
	(1) Explain catalog tables in HBASE.	
	(2) Explain configuration files in HBASE.	
Que-4 (C)	Attempt any one Question.	(03)
	(1) Explain compaction in detail.	
	(2) Explain Region and Region Server.	
Que-4 (D)	Attempt any one Question in detail.	(05)
	(1) Explain Zookeeper and HMaster in detail.	
	(2) Create table stud with two column family personal data (rno, name, city) and mark (hadoop, cloud computing, android) insert two records for each column family.	
Que-5 (A)	Answer the following questions.	(04)
	(1) RDD stands for.	
	(2) VPC Stands for.	
	(3) MPP Stands for.	
	(4) If we want to create work flow, _____ will be used.	
Que-5 (B)	Attempt any one Question.	(02)
	(1) Explain sqoop Import process.	
	(2) Explain Spark architecture.	
Que-5 (C)	Attempt any one Question.	(03)
	(1) Explain EMR in detail.	
	(2) Explain different modes of hadoop cluster.	
Que-5 (D)	Attempt any one Question in detail.	(05)
	(1) Explain Graph Database in detail.	
	(2) Explain import export process across RDBMS and HDFS with example.	

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