

MBT-003-1082002 Seat No. _____

M. Sc. (IT) (Sem. II) (CBCS) Examination April / May - 2018

CS - 08: Introduction to Big Data & Hadoop

Faculty Code: 003

Subject Code: 1082002

Time	e : 2	$\frac{1}{2}$ H	Hours] [Total Marks :	70
1	(A)	Objective type questions:		4
		(1)	The Hadoop framework itself is mostly written in the Java programming language. true or false?	
		(2)	List different types of nosql databases.	
		(3)	command to list the blocks that make up each file in the file system.	
		(4)	An HDFS cluster has two types of nodes and operating in a master-slave pattern.	
	(B)	Ans	swer in brief : (Any One)	2
		(1)	Explain Limitations of traditional large Scale systems.	
		(2)	Define name node, data node and checkpoint node.	
	(C)	Ans	wer in detail : (Any One)	3
		(1)	Explain any three Linux commands.	
		(2)	What is Big Data? Explain characteristics of Big Data.	
	(D)	Wri	te a note on : (Any One)	5
		(1)	Explain HDFS architecture.	
		(2)	Explain Schema on Read and Schema on Write.	
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2	(A)	Objective type questions:		4
		(1)	MapRduce was devised by	
		(2)	part of the MapReduce is responsible	
			for processing one or more chunks of data and	
			producing the output results.	
		(3)	Which of the following operator is used to view the map reduce execution plans?	
		(4)	operator is used to review the schema of a relation.	
	(B)	Ans	Answer in brief : (Any One)	
		(1)	Explain execution mode of apache pig.	
		(2)	Write a short note on Partitioning.	
	(C)	Ans	wer in detail : (Any One)	3
		(1)	Write a short note on shuffling and sorting.	
		(2)	Explain Describe, explain and illustrate.	
	(D)	Write a note on : (Any One)		5
		(1)	Write a short note on MRv2 & YARN.	
		(2)	Explain pig architecture.	
3	(A)	Obje	ective type questions :	4
		(1)	To select all columns starting with the word 'Sell' from the table GROSS-SELL the query is	
		(2)	Give name of complex datatypes in hive.	
		(3)	Write a syntax of LOAD DATA statement.	
		(4)	Hive is designed for OLAP true or false?	
	(B)	Answer in brief : (Any One)		2
		(1)	Explain different modes of executing Hive queries.	
		(2)	Write a short on partitioning in Hive.	
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	(C)	Answer in detail : (Any One)			
		(1)	What is view? Explain views in Hive.		
		(2)	Write a short note on Hadoop Streaming.		
	(D)	Write a note on : (Any One)			
		(1)	Explain architecture of Hive.		
		(2)	Explain Map Reduce non-graph algorithm.		
4	(A)	Obje	ective type questions :	4	
		(1)	Which command is used to disable all the tables matching the given regex ?		
		(2)	What is the use of get() method?		
		(3)	HBase is a distributed database built on top of the Hadoop file system		
		(4)	Hbase column family cannot be renamed. True or false?		
	(B)	Ans	wer in brief : (Any One)	2	
		(1)	Write a short note on master and region server.		
		(2)	Explain features of Hbase.		
	(C)	Answer in detail : (Any One)		3	
		(1)	How to create a table in Hbase? Explain with example.		
		(2)	How to enable and disable tables in Hbase? Explain.		
	(D)	Write a note on : (Any One)		5	
		(1)	Explain Hbase architecture in detail.		
		(2)	Explain describe, alter and drop command in Hbase.		
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5	(A)	Objective type questions:		4
		(1)	Give a full form of EC2.	
		(2)	is used for graph processing.	
		(3)	was created to allow you to flow data from a source into your Hadoop environment.	
		(4)	is a distributed real-time computation system for processing large volumes of high-velocity data.	
	(B)	Answer in brief: (Any One)		2
		(1)	What is use of impala in Hadoop? explain.	
		(2)	Explain RDD in spark.	
	(C)	Answer in detail : (Any One)		3
		(1)	How to Importing/exporting data across RDBMS and HDFS using Sqoop?	
		(2)	Explain graph processing using neo4j.	
	(D)	Wri	te a note on : (Any One)	5
		(1)	What is flume? Explain advantage of flume.	
		(2)	Explain spark architecture.	