

Seat No.	
----------	--

HO-003-1082002]

HO-003-1082002

M. Sc. (IT & CA) (Sem. II) (CBCS) (W.E.F. 2016) Examination

April - 2023

CS - 08: Introduction to Big Data & HADOOP

Faculty Code: 003

Subject Code: 1082002

Time: $2\frac{1}{2}$ Hours / Total Marks: 70

1	(a)	Objective type questions:	4
		(1) Give the full form of 3v.	
		(2) What is the full form of SMAC?	
		(3) Give full form of HDFS.	
		(4) What is CRC?	
	(b)	Answer in brief: (any one)	2
		(1) Explain rack awareness and block placement.	
		(2) Explain CAP theorem.	
	(c)	Answer in detail : (any one)	3
		(1) Explain advance features of HDFS.	
		(2) Explain Name Node, Data Node and Check point Node.	
	(d)	Write a note on: (any one)	5
		(1) Explain HDFS Architecture.	
		(2) Explain features of NoSQL Database.	
2	(a)	Objective type questions:	4
		(1) MR stands for ?	
		(2) CLC stands for ?	
		(3) In Hadoop, the default Partitioner is ?	
		(4) What is slot and container?	

1

[Contd...

HO-003-1082002		082002	[Con	td	
		(4)	What is the full form of REST?		
		(3)	is a process by which HBase cleans itself.		
		(2)	What is ZooKeeper?		
			management system.		
		(1)	is a column oriented non relational database		
4	(a)	a) Objective type questions :			
		(2)	Give the difference between Pig and Hive.		
		(1)	Explain Hive Architecture.		
	(d)		te a note on : (any one)	5	
			Explain sorting algorithm.		
		(1)	Explain Old and the new MR API.		
	(c)			3	
		(2)	Explain select statement with suitable example.		
		(1)	Explain different Modes of executing Hive queries.		
	(b)	Ans	wer in brief: (any one)	2	
		(4)	Give the full form of TF-IDF.		
		(3)	What is combiner?		
		()	writable interface?		
		(2)	Which two methods are required to implement the		
		(1)	The Java API supports Write and read binary, JSON, text and XML document. True/false?		
3	(a)		ective type questions:	4	
•	(-)				
		(2)	Explain Map Reduce Architecture.		
		(1)	Explain Pig Architecture.		
	(d)	Writ	te a note on : (any one)	5	
		(2)	Explain Legacy MR v/s Next Generation MR.		
		(1)	Explain Load, Store, and Dump with suitable example		
	(c)	Ans	wer in detail : (any one)	3	
		(2)	Explain ACID v/s BASE.		
	` /	(1)	Explain Hadoop data types.		
	(b)	Ans	wer in brief : (any one)	2	

	(b)	Ans	wer in brief : (any one)	2	2
		(1)	Explain Master and the Region Server.		
		(2)	Explain use of Filters in HBase.		
	(c)	Ans	wer in detail : (any one)	3	3
		(1)	Explain HBase v/s Cassandra.		
		(2)	Explain HBase coprocessors.		
	(d)	Write a note on: (any one)		5	5
		(1)	Explain HBase Architecture.		
		(2)	Explain catalog tables.		
5	(a)	Obje	ective type questions:	4	1
		(1)	What is the full form of RDD?		
		(2)	Full form of DAG is?		
		(3)	EMR stands for		
		(4)	AmazonEC2 stands for		
	(b)	Ans	wer in brief: (any one)	2	2
		(1)	How to export data using Sqoop?		
		(2)	Explain workflows in Oozie.		
	(c)	Ans	wer in detail : (any one)	3	3
		(1)	Explain Different interfaces of Spark.		
		(2)	Explain Neo4j.		
	(d)	Writ	te a note on : (any one)	5	5
		(1)	Explain Spark Architecture.		
		(2)	What is Flume? How it works?		