

				Sub	ject	Coc	le: k	COF	097
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Time: 3 Hours Total Marks: 100

BIG DATA

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt all questions in brief.

2*10 = 20

Printed Page: 1 of 2

Q.no	Questions	Marks	CO
(a)	What do you mean by Apache Hadoop?	2	2
(b)	Define the term Big Data.	2	1
(c)	Why do we need Hadoop?	2	2
(d)	What do you mean by Digital data?	2	1
(e)	Define data replication in Hadoop Distributed File System.	2	3
(f)	What do you mean by serialization in Hadoop Distributed File System?	2	3
(g)	Write down briefly about the schedulers.	2	4
(h)	Briefly define NameNode under Hadoop Eco System.	2	4
(i)	What is Zookeeper?	2) 5
(j)	Mention the Execution Modes of Pig.	2	5

SECTION B

2. Attempt any three of the following:

10*3 = 30

Q.no	Questions	Marks	CO
(a)	What are views in HIVE? What is the difference between internal and	10	5
	external tables in HIVE?		
(b)	Describe Map Reduce framework and Map Reduce working.	10	2
(c)	Describe Structured, Semi structured and Unstructured data? Explain	10	3
	with example.		
(d)	Describe about the "Shuffle & Sort" phase and "Reducer Phase" in	10	4
	MapReduce.		
(e)	What are the benefits of Big Data? Discuss in detail about the 5V's	10	1
	characteristics of Big Data.		

SECTION C

3. Attempt any *one* part of the following:

10*1 = 10

Q.no	Questions	Marks	CO
(a)	Write short note on any two of the following.	10	5
	i) Hadoop Eco System Frameworks.		
	ii) Joins and subqueries.		
	iii) IBM Big Data strategy.		
(b)	Write down the statement for developing a Map Reduce application.	10	2



				Sub	ject	Coc	le: F	COE	2097	•
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BTECH (SEM VIII) THEORY EXAMINATION 2021-22 BIG DATA

4. Attempt any *one* part of the following:

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Printed Page: 2 of 2

Q.no	Questions	Marks	CO
(a)	Explain the analytic processes and tools under Introduction to Big	10	1
	Data.		
(b)	Mention about the Cluster specification? Describe how to Setting up a	10	3
	Hadoop Cluster?	ļ	

5. Attempt any *one* part of the following:

$$10*1 = 10$$

Q.no	Questions	Marks	CO
(a)	Discuss Master Slave and Peer-Peer replication in detail.	10	4
(b)	Explain the Hbase concepts. How Zookeeper helps in monitoring a	10	5
	Cluster?		

6. Attempt any *one* part of the following:

$$10*1 = 10$$

Q.no	Questions	Marks CO
(a)	Give the Anatomy of a Map Reduce job run in Map Reduce.	10 2
(b)	Give the detailed description about the Analysis vs. reporting while	10 1
	Introducing the Big Data.	N/

7. Attempt any *one* part of the following:

10*1 = 10

Q.no	Questions	Marks	CO
(a)	Describe the Compression and Serialization under the Hadoop I/O	10	3
	Operation.		
(b)	Explain about the storage mechanism in HBase. Write a query to	10	4
	create table in HBase.		
	1,1.06.2022		