

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

IV B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH-2023
BIG DATA TECHNOLOGIES
(IT Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-AAnswer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) Define Veracity and Velocity of Big Data	[2M]	1	1
	b) Discuss the Old API of Map Reduce	[2M]	2	6
	c) What are Writeable Wrappers for Java Primitives	[2M]	3	1
	d) Explain local mode of running Pig Scripts	[2M]	4	2
	e) How to create and manage tables in Hive	[2M]	5	1

PART-BAnswer **One Question from each UNIT (5X10=50M)**

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	a) Elaborate on Characteristics of Big Data.	[5M]	1	6
	b) Distinguish the Google File System and HDFS.	[5M]	1	4
OR				
3.	a) Demonstrate Building blocks of Hadoop.	[5M]	1	2
	b) Discuss about Hadoop clusters, Types and Properties.	[5M]	1	6
UNIT-II				
4.	a) What is Hadoop combiner functions?	[5M]	2	1
	b) Discuss about Mapper Code in Map Reduce Program.	[5M]	2	6
OR				
5.	a) Explain Map reduce Partitioner implementation with example.	[5M]	2	2
	b) Discuss about Reducer Code in Map Reduce Program.	[5M]	2	6
UNIT-III				
6.	a) Demonstrate the implement Writable Interface in Hadoop.	[5M]	3	2
	b) Demonstrate the implement custom writeable with example program.	[5M]	3	2
OR				
7.	a) How can Writeable and Comparable comparators implement in Hadoop.	[5M]	3	1
	b) Demonstrate the implement Object Writeable with suitable program.	[5M]	3	2
UNIT-IV				
8.	a) Discuss the components of Apache spark.	[5M]	4	6
	b) Explain Pig Architecture and Application flow of Pig.	[5M]	4	2
OR				
9.	a) Explain the riting Word count in Apache spark.	[5M]	4	2
	b) How can Check out the Pig script interface.	[5M]	4	1

UNIT-V					
10.	a)	What is Hive and discuss its services.	[5M]	5	1
	b)	How Hive Manipulation language works.	[5M]	5	1
OR					
11.	a)	Discuss about Hive data types with suitable examples.	[5M]	5	6
	b)	Discuss about Hive Querying and Analyzing Data.	[5M]	5	6
