


Seat No	
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Question Paper Code	WU24VII-423
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	WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR An Autonomous Institute affiliated to PAH Solapur University, Solapur
	Information Technology Final Year B. Tech. Sem-VII 2024-25 (CBCS pattern) End Semester Examination

Course: Professional Elective- III- Big Data Analytics	Max. Marks: 60	SET: Q
Course Code : 21ITU7E42T		
Day and Date: Monday 02/12/2024	Time: 02.30 pm to 05.30 pm	

Instructions:

1. All questions are compulsory.
2. Assume suitable data wherever necessary.
3. Draw neat sketches wherever necessary.
4. Q.1 should be solved in first 30 minutes and answers should be written only on the first page of answer book.
5. Supplements will not be provided.
6. Use of nonprogrammable calculator is permitted.

Q. No	Sub Que		Marks
1		Multiple Choice Questions	12
	i.	Hive uses _____ for logging. a) logj4 b) log4l c) log4i d) log4j	
	ii.	Which of the following function is used to read data in PIG? a) WRITE b) READ c) LOAD d) None of the mentioned	
	iii.	Pig operates in mainly how many nodes? a) Two b) Three c) Four d) Five	
	iv.	How many formats of SequenceFile are present in Hadoop I/O? a) 2 b) 3 c) 4 d) 5	

v.	Hadoop I/O Hadoop comes with a set of _____ for data I/O. a) Methods b) commands c) classes d) none of the mentioned
vi.	A _____ serves as the master and there is only one Name Node per cluster. a) Data Node b) Name Node c) Data block d) Replication
vii.	Running a _____ program involves running mapping tasks on many or all of the nodes in our cluster. a) MapReduce b) Map c) Reducer d) All of the mentioned
viii.	Point out the correct statement. a) MapReduce tries to place the data and the compute as close as possible b) Map Task in MapReduce is performed using the Mapper() function c) Reduce Task in MapReduce is performed using the Map() function d) All of the mentioned
ix.	Hive also support custom extensions written in _____. a) C# b) Java c) C d) C++
x.	Apache HBase is a non-relational database modeled after Google's _____. a) BigTop b) Bigtable c) Scanner d) FoundationDB
xi.	Which of the following class provides access to configuration parameters? a) Config b) Configuration c) OutputConfig d) None of the mentioned
xii.	HBase is a distributed _____ database built on top of the Hadoop file system. a) Column-oriented b) Row-oriented c) Tuple-oriented d) None of the mentioned

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Q. No	Sub Que		Marks
Q.2		Attempt any Four	12
	i.	What is a Big data? What are the features Big data?	
	ii.	What are the techniques of Analysing Data with Hadoop?	
	iii.	Illustrate with example how Hadoop Streaming works.	
	iv.	What are the different types of Digital data?	
	v.	Write a short note on Apache Hadoop?	
Q.3		Attempt any Two	12
	i.	Demonstrate Hadoop file system interfaces in HDFS(Hadoop Distributed File System).	
	ii.	What is DFS? Why we need DFS? Elaborate in detail with example.	
	iii.	What is Hadoop? What are the important Features of HDFS(Hadoop Distributed File System)?	

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Q.4		Attempt any <i>Four</i>
	i.	What are the key differences between Hive and Pig?
	ii.	How is Apache Pig different from MapReduce?
	iii.	What are the major components of a Pig execution environment?
	iv.	Explain the different complex data types in Pig.
	v.	What is UDF in Hive? Illustrate in detail?
Q.5		Attempt any <i>Two</i>
	i.	What is HBASE? Give the difference Between Hbase and Hive.
	ii.	Differentiate between Supervised Learning and Unsupervised Learning.
	iii.	Illustrate with example : Big Data Analytics with BigR.