POORNIMA UNIVERSITY, JAIPUR
END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER

BCA (ALL) II () - IV Sem (Main/Back) End Semester Examination,
BCACCA4101: Big Data Analysis

Time: 3 Hours　　　**Total Marks:** 60　　　**Min. Passing Marks:** 21/24/27　　　**Question Paper ID:** 001353

Instructions: Attempt all five questions. There is an internal choice either (a or b) in Q1 to Q5. Marks of each question or its parts are indicated against each question/part. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Bloom Level(BL): 1-Remembering, 2-Understanding, 3-Applying, 4-Analysing, 5-Evaluating, 6-Creating

Use of following supporting material is permitted during examination for this subject: Nil

			Marks	BL	CO
Q1.	**(a)**	(i) What is Big Data? Describe its Role in Today life? **(Marks 6)**	12	1	1
		(ii) What is a MapReduce? Explain the MapReduce Programming. **(Marks 6)**			
		(OR)			
	(b)	(i) What are the basic features of Big Data Platform? **(Marks 6)**			
		(ii) List out the main characteristic of Big Data? **(Marks 6)**			
Q2.	**(a)**	(i) What is Hadoop? Define its advantage Hadoop. **(Marks 6)**	12	1	2
		(ii) Define the properties of data? Also explain the types of data. **(Marks 6)**			
		(OR)			
	(b)	(i) What you mean by HDFS? Define the concept of HDFS. **(Marks 6)**			
		(ii) What is interfaces in HDFS? Define the various type interfaces. **(Marks 6)**			
Q3.	**(a)**	(i) What is Map-Reduce and how it relates to Big Data? **(Marks 6)**	12	1	3
		(ii) What are the parameter of Map Reduce Program? **(Marks 6)**			
		(OR)			
	(b)	(i) What are the key differences between Pig vs MapReduce? **(Marks 6)**			
		(ii) How to set which framework would be used to run MapReduce program? **(Marks 6)**			
Q4.	**(a)**	(i) What is PIG? Explain the Execution mode of PIG. **(Marks 6)**	12	1	4
		(ii) Differentiate Between Pig and Map-Reduce in Details? **(Marks 6)**			
		(OR)			
	(b)	(i) What is Hive? Define its Role. **(Marks 6)**			
		(ii) Define the Architecture of Hive? **(Marks 6)**			
Q5.	**(a)**	(i) What Apache? how to user can handle data . **(Marks 6)**	12	1	5
		(ii) Describe the Zookeeper? **(Marks 6)**			
		(OR)			
	(b)	(i) What is 'R' Programing? Define different Data Structure in 'R' . **(Marks 6)**			
		(ii) What is a package in R, and how do you install and load packages? **(Marks 6)**			

End of Question Paper