



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme - MCA-2022 Course Name - Big Data Analysis Course Code - MCA305B (Semester III)

Full Marks . 60

a) Reduce

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ull	Marks: 60	Time	: 2:30 Hours
L	The figure in the margin indicates full marks. Cand own words as far	didates are required to give their answ	
	OWN Words us ful	as practical en	
	Grou	p-A	
ι.	(Multiple Choice Type Question) 1 : Choose the correct alternative from the following :		1 x 15=15
(i)	Discuss which of the following is a wrong stater	ment.	
	a) The big volume actually represents Big Data c) The data growth and social media explosion have improved that how we look at the data	b) Big Data is just about tons of datad)All of these	
(ii)	Discuss that beyond Volume, velocity and variet data veracity.	ty are the concerns and problems of b	g
(iii)	a) Correct c) Partially wrong Discuss Which of the big data characteristic is co science?(Probable duplicate)	b) Wrong d) Partially correct omparatively more concerned with da	ta
iv)	a) Variety c) Volume Find errors from following options: Which is the	b) Velocity d) None of these type of a NoSQL database?	
(v)	a) Cassandra c) SQL Server Focus on Facebook which Tackles Big Data With	b) MongoDB d) None of the above based on Hadoop.	
	a) Project Prism c) Project Big Explain which is general-purpose computing mo	b) Prism d) Project Data	d
	data analytics. a) Mapreduce c) Oozie	b) Drill d) Both Drill and Oozie	
/ii)	Explain which function is responsible for consolithe Map() functions/tasks.	dating the results produced by each o	of

b) Map

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		d) All of the mentioned	
	c) Reducer Although the Hadoop framework is implement	nted in Java, MapReduce applications need	
(viii	Although the Haddop Trainer		
	not be written in	b) C	
	a) Java	d) None of the mentioned	
	c) C# Demonstrate about veracity		
(ix)		b) Reliable	
	a) Filter	d) All of these	
	c) manage data The primary aspect of Big Data is to provide		
(x)	The primary aspect of 5.8 2 and	b) demanding data slowly	
	a) demanding data rapidly	d) None of these	
	c) no demanding data		
(xi)	Uses of velocity in	b) sensors	
	a) mobile devices	d) All of these	
	c) business processes Demonstrate about categories of clustering m		
(XII)		b) Hierarchical methods	
	a) Partitioning methods	d) All of these	
	c) Grid based methods Identify among the options below which is ge	neral-purpose computing model and	
(XIII	runtime system for Distributed Data Analytics		
		b) YARN	
	a) HDFS	d) Utilities	
Lain	c) Map Reduce Define HDFS is implemented in which program		
(XIV		b) Java	
	a) C	d) Python	
lvu	c) C++ Describe when a serves as the m	aster and there is only one NameNode per	
/^^	cluster.		
	a) Data Node	b) replication	
	c) Name node	d) Data block	
		oup-B	2 5 .45
	(Short Answer	Type Questions)	3 x 5=15
			(0)
2. E	xplain the CAP theorem in the context of NoSC	L databases and provide an example of ho	w (3)
j	impacts database design.	-2	(3)
3. What are some common use cases for MapReduce?			(3)
4. Illustrate the various types of data in big data.5. Report the difference between clustering and classification.			(3)
5. 1	valuate the trade-off between computational c	complexity and interpretability in the conte	
	f the Apriori Algorithm.	, , , , , , , , , , , , , , , , , , , ,	
	THE April 17 "Bortem"	OR	
Е	xamine the impact of parameter tuning on the	Apriori Algorithm's mining capabilities.	(3)
		oup-C	
	(Long Answer	Type Questions)	5 x 6=30
7.	Write down the characteristics of Big Data App	lications.	(5)
8.	What is HDFS?		(5)
9. Contrast the ramifications of overfitting and underfitting in Decision Tree models,			
	elucidating the potential consequences on pre	dictive outcomes.	
10.	What are Bayesian Classifiers? What are Recommenders?		(5)
	What is Cluster Analysis?		(5)
12.	Wilde is Cluster Analysis		(5)

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