			В.Э			MINATION, JUNE 2023 emester				
						OOLS AND TECHNIQUES academic year 2018-2019 to 2021-20	022)			
Note: (i) (ii)		over	to hall invigilate	answered in OMR soor at the end of 40 th should be answered	minute		eet sho	ald be	e han	ded
Time	: 3	hours					Max.	Mar	ks: 1	.00
							34	s BL	60	PO.
			PA	$ART - A (20 \times 1)$			Mark	S DL	CO	· ro
	ž			Answer ALL ()uestic	ons	1	1	3	3
	l.		stands for		(D)			•	3	3
/2						Yet another resource negotiator Yet archive resource negotiator			123	
	2.		at would be th		cks fo	r storage with HDFS block siz	e " 1	3	3	3
		(A)		12 0 10 GB.	(B)	80				
		(C)			` /	120				
	3.	supp	orted by			er requirement for big data i	s 1	3	1	2
2.5			PaaS		` '	IaaS				
		(C)	SaaS		(D)	BDaaS				
	4.		is the store	ge layer of hadoo	n		1	2	2	2
	4.	$\overline{(\Delta)}$	Yarn	ge layer of hadoo		Map reduce				
		` '	HDFS			Hive				
	5.			command line in		e called to interact wit	h ¹	1	3	3
19		HDI	FS.							
19		(A)	HDFS shell		` /	FS shell				
		(C)	DFS shell	-	(D)	Hadoop shell				
	6.		supports st	olit table compres	sion.	4	1	2	2	2
	٠.		LZO	1		Bzip 2				
		` /	Gzip		` '	ZLÔ				
	7	The	output of the r	napper and reduce	er is ir	n format	1	3	3	3
	/.		Document			Key, value				
		. ,	Table			Tree				
	8.	Apa	che is	a serialization f	ramev	work that produce data in binar	y 1	2	3	2
		forn			(7)	Ossis				
		` '	Kafka			Oozie				
		` '	Avro		(D)	Impala	05JF6	.18 <i>C</i> ©1	2 30 1T	
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9.		keepers architecture supports ices.	high	a availability through	1	2	4	3.
	(A)	Redundant	(B)	Data				
	(C)	Log	(D)	Access				
10.		supports data flow from sour	ce int	o hadoon environment.	1	2	4	5
		Impala		Oozie			10	
		Flume	` '	SQL				
	=0		(-)	242				
11.	Hba	se and Cassandra are data			1	1	5	5
	(A)	Row oriented Document		Column oriented				
	(C)	Document	(D)	XML				
12.	2 pig command is used to display results on the screen.							3
		Group	-	Dump				
		Load		List				
			• ,					
13.	Men	nory computation for interactive	proc	cessing in spark is supported by	1	2	5	3
	(A)	Distributed queues	(B)	Distributed trees				
	(C)			Resilient distribute databases			51	
	` '		()					
14.				r location and state information.	1	2	5	3
		Gossip	` '					
	(C)	Inter route	(D)	Route				
15.		is a java web application to so	chedu	tle anache hadoon jobs	1	1	4	2
10.		Oozie		Impala				
	(C)	Mahout		Hive				
	(-)	• 4	(-)					
16.	is a non relational database modeled after Google's big table.						5	5
	(A)	Spark	(B)	Hbase				
	(C)	MongoDB	(D)	Cassandra				
17.	learning uses labelled training data						6	4
17.		Supervised	-		1	2	U	7
		Clustering	' '	Reinforcement Unsupervised				
	(0)	Clustering	(D)	Olisupervised				
18.		describes a pie chart.			1	4	6	5
			(B)	Data trend over time				
	. í	categories of data	` ′					
	(C)	Correlation between different	(D)	Contribution of individual				
		data set		values to a total value				
10		mmoute data view-1!!			1	2	5	5
19.		supports data visualization in			1	2	3	5
	, ,	Data frame Numpy		Pandas Matalatlih				-
	(U)	тчишру	(D)	Matplotlib				
20.	Big	data size is represented in	_,	5	1	2	2	2
	(A)	Giga bytes	(B)	Mega bytes and Giga bytes				
	(C)	Tera bytes		Peta bytes and Exa bytes				
2 of 3					TTFC 1	OCCT2	017	

		PART – B ($5 \times 4 = 20$ Marks) Answer ANY FIVE Questions	Marks	BL	со	PO
	21.	Why YARN is introduced in hadoop version 2?	4	4	3	3
	22.	Demonstrate data storage process in HDFS.	4	3	3	3
	23.	Illustrate space flume architecture.	4	3	4	2 .
	24.	Write the query to create a table in Hive.				3
	25.	State the flink methods to transform elements within dataset.				3
	26.	Mention the significance of tableau charts for big data visualization.			5	5
	27.	Write the code snippet in python for data visualization.				5
		PART – C ($5 \times 12 = 60$ Marks) Answer ALL Questions				
	28. a.	Illustrate the application of cloud computing in a big data environment.	12	3	1	2
		(OR)				
	b.	 Demonstrate the architecture of YARN and the workflow of job execution in YARN. 				2
	29. a.	Explain file read and store operations in HDFS with suitable diagrams.	12	1	3	2
		(OR)				
	b,	Implement map reduce concept with an example.	12	3	3	2
30. a.		Write Hive queries using		3	4	2
		(i) Limit clause (ii) Where conditions	3			
		(ii) Where conditions (iii) Group by column names	3			
	2.	(iv) Order by column names	3			
		(OR)				
	Ъ.	Give short notes on	4	2	4	2
	20	(i) Pig architecture (ii) Pig components	4			
		(iii) Pig data model	4			
	31. a.	Discuss the significance of various storage levels of RDD in spark.	12	5	5	2
	b.	(OR) b. Elaborate the role of unstructured databases for big data analytics using MongoDB.				3
	32. a.	Explain the different types of tableau charts for big data visualization.	12	2	6	5
		(OR)				
	b.	Discuss in detail about the data science solutions in enterprise data science.	12	2	6	3