

Academic Year 2023-24 (EVEN Se

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Department of Artificial Intelligence and Machine Learning

Course Code:	:	21 AI62	Date	:	26 .07.2024
Semester	:	VI	Time	:	02:00 - 04:00
Max Marks	\:	50 Marks	Duration	:	120 mins

Big Data Technologies

Improvement Test

Note: Answer all the Questions

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SL.	No Questions		M	BT
		PART - A		
1		Define flume agent?	01	2
2	-	State the use of transaction in flume agent?	01	2
3	1	The two different types of channel used in flume are and	01	1
4 The file format used by		The file format used by flume for storing the data is	01	2
5	-	State the two fields in Avro Record?		1
6		State two types of algorithm processing that best suits for spark processing model?	01	2
1		State two categories of operation on RDD's in Spark	01	1
-	8	Define Accumulator in Spark?	01	1
	9	sends the update message when a task has finished or failed in Spark Job	01	2
1	0	The number of core allocated for task execution in spark is	01	1
	_	PART - B	01	
1	a	Discuss with the diagram and code snippet the working of flume?	06	2
	b	"The point of Flume is to deliver large amounts of data into a Hadoop data store". Show how to configure a Flume agent to deliver events to an HDFS sink?	04	2
2	a	Discuss scaling of agent in flume?	06	1
	b	"Flume uses transactions to ensure that each batch of events is reliably delivered from a source to a channel, and from a channel to a sink". How this is achieved?	04	4
3	a	List out the features of apache spark?		
	b	Write and explain Scala application to find the maximum temperature, using Spark?	04	2
4	а	Compare and Contrast reduceByKey() and foldByKey() transformations for aggregating RDDs in Spark?	06	
	b	How is data serialization handled in Apache Spark?		
5		Printed in Apache Spark?		1
	Discuss with a neat diagram Job Submission in Anatomy of Spark Job Run			0