

✓ Congratulations! You passed!

TO PASS 80% or higher



grade 100%

## **Pipeline and Tools**

LATEST SUBMISSION GRADE 100%

1.	What is data-parallelism as defined in lecture?	1 / 1 point
	Simultaneously processing input data from multiple cores.	
	At each step of the data pipeline, process values simultaneously by using multiple cores.  Running the same function simultaneously for the partitions of a data set on multiple cores.	
	Running the same function simultaneously for the partitions of a data set on multiple cores.  Having multiple multiple data pipelines at the same time.	
	Having multiple total pipelines at the same time.	
	✓ Correct	
	Of the following, which procedure best generalizes big data procedures such as (but not limited to) the map reduce process?	1/1 point
	Calif Scort Smarra	
	split->sort->merge	
	split ->shuffle and sort->map->reduce	
	0	
	split->map->shuffle and sort->reduce	
	•	
	split->do->merge	
	✓ Correct	
3.	What are the three layers for the Hadoop Ecosystem? (Choose 3)	1 / 1 point
	ightharpoons	
	Coordination and Workflow Management	
	/ c	
	✓ Correct	
	Data Manipulation and Integration	
	Data Creation and Storage	
	$\checkmark$	
	Data Integration and Processing	
	✓ Correct	
	Data Management and Storage	
	✓ Correct	
	- Contact	
4.		1 / 1 point

What are the 5 key points in order to categorize big data systems?

	$\circ$	Coordination, Latency, Productivity, Flexibility, Fault Tolerance	
	<ul><li>•</li></ul>	Execution model, Speed, Scalability, Flexibility, Fault Tolerance	
	0	Execution model, Latency, Scalability, Programming Language, Fault Tolerance	
		Coordination, Latency, Productivity, Speed, Fault Tolerance	
		✓ Correct	
5.	Wh	at is the lambda architecture as shown in lecture?	1/1 point
	0	An architecture that natively supports lambda calculus.	
	0	A type of swappable data processing layer.	
	•	A type of architecture that only contains part of the data processing method.	
		A type of hybrid data processing architecture.	
		✓ Correct	
6.	Wh	ich of the following scenarios is <b>NOT</b> an aggregation operation?	1/1 point
	0	Counting the total number of data per type.	
	0	Averaging the total number of data per type.	
	•	Counting the total number of data.	
		Removing undefined values.	
		✓ Correct	
7.			1/1 point
	Wh	at usually happens to data when aggregated as mentioned in lecture?	
	•	Data become organized.	
	0	Data becomes smaller.	
	0	Data becomes personalized.	
		Data becomes faster to process.	
		✓ Correct	
8.	Wh	at is K-means clustering?	1 / 1 point
	0		

Classify data by k actions.

	Classify data by k decisions.	
•		
	Group samples into k clusters.	
	Divide samples using k lines.	
	✓ Correct	
9.		1 / 1 point
W	hy is Hadoop not a good platform for machine learning as mentioned in lecture? (Choose 4)	
_	Too massive.	
<b>~</b>	Java support only.	
	ушта зарроско пу.	
	✓ Correct	
<b>~</b>	1	
	Bottleneck using HDFS.	
	✓ Correct	
<b>~</b>	1	
	No interactive shell and streaming.	
	✓ Correct	
	Requires nodes and multiple machines.	
	1	
	Map and Reduce Based Computation.	
	✓ Correct	
	Unable to support machine learning.	
10. W	hat are the layers (parts) of Spark? (Choose 5)	1/1 point
~		
V	Graphx	
	·	
	✓ Correct	
	] Worker Node	
<b>~</b>	1	
	Spark Streaming	
	✓ Correct	
~		
	Spark Core	
	✓ Correct	

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	SparkSQL	
	✓ Correct	
	Spark RDD	
	$\checkmark$	
	MLlib	
	✓ Correct	
	Spark Graph	
11.		1 / 1 point
	What is in-memory processing?	
	0	
	Having the pipeline completely in disk.	
	0	
	Having the input completely in disk.	
	0	
	Writing data to disk between pipeline steps.	
	0	
	Having the input completely in memory.	
	•	
	Writing data to memory between pipeline steps.	
	0	
	Having the pipeline completely in memory.	
	✓ Correct	