University of California, Santa Cruz - Silicon Valley Extension Class: DBDA.X407 Hadoop: Distributed Processing of Big Data

Full Name:	
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## ==== Midterm ===== 8 Questions - 40 points

- **a1.** Select the one that **IS NOT** one the 5 V's of Big Data? (5 points)
  - a. Velocity.
  - b. Variety.
  - c. Volume
  - d. Veracity.
  - e. Validity.
- a2. How the Spark context is used in a Spark program? (5 points)
  - a. It allows storing cached variables.
  - b. Is the handle to connect to a Spark cluster.
  - c. It's used as a transformation.
  - d. It's used as a type of RDD.
  - e. None of the above.
- **a3.** What does the command **distcp** do? (5 points)
  - a. Allows to run distributed jobs in the cluster.
  - b. Sets the limits on storage in HDFS.
  - c. It's a utility program used to perform parallel copy between clusters.
  - d. This program is deprecated and it's not used Hadoop anymore.
  - e. None of the above.
- a4. What's the benefit of Hadoop Job Queues? (5 points)
  - a. They make jobs more secure.
  - b. They define resource allocation rules and allow several groups to concurrently use the cluster.
  - c. By queuing the jobs, Hadoop can make sure only one job will be running at any point in time.
  - d. Job Queues are used to store logs about the Hadoop jobs.
  - e. None of the above.
- **a5.** How the Attempts, Jobs and Tasks are related? (5 points)
  - a. A Job contain an attempt and each attempt is made of tasks.
  - b. A job is made of tasks and each task can contain one or more attempts.
  - c. An attempt represents a full try of Job execution including its tasks.
  - d. Jobs contains tasks and attempts are not related to either jobs or tasks.
  - e. None of the above.

	park function named 'my_operation' receives an RDD as input and returns an RDD. an you say about this function? (5 points)
a. b. c. d. e.	This function is an action. This function is a transformation. It can be an action or transformation. It's not an action nor a transformation just a function. None of the above.
<b>a7.</b> Exp	lain in your own words what is a Spark RDD. (1-2 paragraphs). (10 points)