Module Review

1.	Complete the following:
	You should feed your machine learning model your and not your It will learn those for itself!
	o data, rules
	if/then statements, data
	rules, data
	✓ Correct
2.	True or False: Cloud SQL is a big data analytics warehouse True False Correct
	Correct - Cloud SQL is a transaction RDBMS or relational database management system. It is designed for many more WRITES than READS.
	Whereas BigQuery is a big data analytics warehouse which is optimized for reporting READS.
	True or False: If you are migrating your Hadoop workload to the cloud, you must first rewrite all your Spark obs to be compliant with the cloud. True False
	Correct Correct - you can run your same Spark job code running on the same Hadoop software but running on cloud hardware with Cloud Dataproc.

4.	You are thinking about migrating your Hadoop workloads to the cloud and you have a few workloads that are fault-tolerant (they can handle interruptions of individual VMs gracefully). What are some architecture considerations you should explore in the cloud? Choose all that apply
	Use PVMs or Preemptible Virtual Machines
	✓ Correct
	Migrate your storage from on-cluster HDFS to off-cluster Google Cloud Storage (GCS)
	✓ Correct
	Consider having multiple Cloud Dataproc instances for each priority workload and then turning them down when not in use

5. Google cloud storage is a good option for storing data that:

(select the 2 correct options below).

Correct

- Is ingested in real-time from sensors and other devices and supports SQL-based queries
- Will be accessed frequently and updated constantly with new transactions from a fornt-end and needs to be stored in a relational database
- May be required to be read at some latter time (i.e. load a CSV file into BigQuery)
- May be imported from a bucket into a Hadoop cluster for analysis

6.	Relational databases are a good choice when you need:
	Aggregations on unstructured data
	Transactional updates on relatively small datasets
	Fast queries on terabytes of data
	Streaming, high-throughput writes
	✓ Correct
7.	Cloud SQL and Cloud Dataproc offer familiar tools (MySQL and Hadoop/Pig/Hive/Spark). What is the value-add provided by Google Cloud Platform?
	(Select the 2 correct options below)
	✓ Fully-managed versions of the software offer no-ops
	✓ Correct Yes. No-ops is the main value-add here.
	It's the same API, but Google implements it better
	Running it on Google infrastructure offers reliability and cost savings
	Correct Yes. You pay only for the resources you use. Cloud SQL can be shut down when it's not being used. Hadoop clusters can be of preemptible nodes, and so on.
	Google-proprietary extensions and bug fixes to MySQL, Hadoop, and so on