## Compute Engine

**1.**True or false: You can create Compute Engine virtual machines from the command line. True

Correct! It's advantageous to create virtual machines from a command line when you want their configurations to be scripted and repeatable. The gcloud command, provided by Google Cloud as part of the GCP SDK, can create virtual machines with parameters you specify.

**2.**What is the main reason customers choose Preemptible VMs?

To reduce cost.

That's correct! The per-hour price of preemptible VMs incorporates a substantial discount.

## Google Compute Engine and Networking

1.True or False: Google Cloud Load Balancing allows you to balance HTTP-based traffic across multiple Compute Engine regions. -True

Correct! With global Cloud Load Balancing, your application presents a single front-end to the world.

2.Which statement is true about Google VPC networks and subnets?

Networks are global; subnets are regional

3.An application running in a Compute Engine virtual machine needs high-performance scratch space. Which type of storage meets this need? -Local SSD

4. Choose an application that would be suitable for running in a Preemptible VM

A batch job that can be checkpointed and restarted

5.How do Compute Engine customers choose between big VMs and many VMs?

Use big VMs for in-memory databases and CPU-intensive analytics; use many VMs for fault tolerance and elasticity

6. How do VPC routers and firewalls work?

They are managed by Google as a built-in feature.

7.A GCP customer wants to load-balance traffic among the back-end VMs that form part of a multi-tier application. Which load-balancing option should this customer choose?

The regional internal load balancer

8. For which of these interconnect options is a Service Level Agreement available?

Dedicated Interconnect

## Cloud Storage

1.Your Cloud Storage objects live in buckets. Which of these characteristics do you define on a per-bucket basis? Choose all that are correct (3 correct answers).

A geographic location

A globally-unique name

A default storage class

2True or false: Cloud Storage is well suited to providing the root file system of a Linux virtual machine.

False

3.Why would a customer consider the Coldline storage class?

To save money on storing infrequently accessed data.

## Cloud Bigtable

1. True or false: Each table in NoSQL databases such as Cloud Bigtable has a single schema that is enforced by the database engine itself. -False

Correct! NoSQL databases such as Cloud Bigtable are suitable when all items in the database needn't have their integrity checked by a database schema. Why not? Maybe you want your database items to contain variable fields, or maybe because you simply want your application to manage database integrity.

2.Some developers think of Cloud Bigtable as a persistent hashtable. What does that mean?

Each item in the database can be sparsely populated, and is looked up with a single key.

## Cloud SQL and Cloud Spanner

1. Which database service can scale to higher database sizes?

Cloud Spanner.  
Cloud Spanner can scale to petabyte database sizes, while Cloud SQL is limited by the size of the database instances you choose. At the time this quiz was created, the maximum was 10,230 GB.

2. Which database service presents a MySQL or PostgreSQL interface to clients?

Cloud SQL.  
Each Cloud SQL database is configured at creation time for either MySQL or PostgreSQL. Cloud Spanner uses ANSI SQL 2011 with extensions.

3.Which database service offers transactional consistency at global scale?

Cloud Spanner.  
Cloud Spanner offers transactional consistency at global scale

## Cloud Datastore

1.How are Cloud Datastore and Cloud Bigtable alike? Choose all that are correct (2 correct answers)

1. They are both NoSQL databases.  
2. They are both highly scalable.

2.True or false: Cloud Datastore databases can span App Engine and Compute Engine applications.

True