True/False

Multiple Compute Regions permit not only disaster recovery but also a very efficient application-level synchronous replication

False

In warehouse-scale computers the software running on these systems executes on clusters of hundreds to thousands of individual servers

True

Warehouse-scale computers belong to a single organization, use a relatively homogeneous hardware and system software platform, and share a common systems management layer

True

WSCs belong to multiple organizations and use a heterogeneous hardware and system software platform.

False

Data centers are buildings where multiple servers and communication units are co-located

True

Traditional data centers typically host a large number of relatively small- or medium-sized applications

True

Warehouse-scale computers comprise important components related to power delivery, cooling, and building infrastructure

True

Warehouse-scale computers run a large number of very small applications

False

WSCs run a smaller number of very large applications or internet services.

True

The program in warehouse-scale computing is a service provided by internet

True

Traditional data centers can host hardware and software for multiple organizational units or different companies

True

Warehouse-scale computers can be designed to operate on multiple data centers

True

Datacenters within the same Geographic Areas share the same power and network infrastructure

False

The program in warehouse-scale computing may consist of tens or more individual programs

True

In current datacenters east-west traffic typically involves lower data volumes compared to north-south traffic

False

Warehouse-scale computers require specialized cooling and power management systems

True

Multiple data centers are often replicas of the same service to reduce user latency and improve serving throughput

True

A request is typically processed across multiple data centers simultaneously

False

Geographic Areas (GAs) in cloud computing are defined by technical boundaries rather than geopolitical ones

False

Availability Zones (AZs) are fault-isolated locations within a single computing region with redundant power, cooling, and networking

True

Services provided through WSCs typically aim for at least 99.99% uptime

True

The primary function of a data center is to store and process large amounts of data

True

Multiple Questions

In the context of data centers, scalability is the ability for the infrastructure \_\_\_\_\_\_\_\_\_\_ without cost, efficiency, and reliability being compromised. Select the correct item to be included in the previous sentence.

A to be enlarged or to handle an increment of the input requests

B to run in a larger building

C none of the others

D to improve the cooling strategy

Which is the most appropriate definition for "fault"?

A Any library inconsistency in the Operating System

B Any defect in the silicon caused by dust particles during manufacturing

C Any inappropriate usage of the system

D Any event interfering with the nominal behavior of the system