**1: Cloud Concepts**

1. Which of the terms in the following list can be considered benefits of using cloud services?

*Select all that apply.*

a. Elasticity

b. Unpredictable costs

c. Agility

d. Economies of scale

2. Which of the following terms relates to making a service available with no downtime for an extended period?

*Select the correct option*.

a. Performance

b. Fault tolerance

c. High availability

d. Agility

3. Which of the following sentences best describes platform as a service (PaaS)?

*Select the correct option.*

a. Users can create and deploy an application as quickly as possible without having to worry about

managing the underlying infrastructure.

b. Users are responsible for purchasing, installing, configuring, and managing their own operating

systems, middleware, and applications.

c. Users pay for an annual or monthly subscription.

d. Users are only responsible for updating the operating system.

4. Which of the following requires the most user management of cloud services?

*Select the correct option.*

a. Infrastructure as a service

b. Platform as a service

c. Software as a service

d. All require approximately the same level of user management

5. Which cloud model provides the most flexibility?

*Select the correct option.*

a. Public

b. Private

c. Hybrid

d. All provide the same level of flexibility.

6. What is cloud computing?

a. Delivery of computing services over the internet.

b. Delivery of storage services over the internet.

c. Delivery of websites accessible via the internet.

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8. Which cloud model uses some datacenters focused on providing cloud services to anyone that wants them, and some data centers that are focused on a single customer?

1. Public cloud
2. Hybrid cloud
3. Multi-cloud

9. According to the shared responsibility model, which cloud service type places the most responsibility on the customer?

1. Infrastructure as a Service (IaaS)
2. Software as a Service (SaaS)
3. Platform as a Service (PaaS)

10. Which type of scaling involves adding or removing resources (such as virtual machines or containers) to meet demand?

1. Vertical scaling
2. Horizontal scaling
3. Direct scaling

11. What is characterized as the ability of a system to recover from failures and continue to function?

1. Reliability
2. Predictability
3. Scalability