**Module 1:**

1. All of the above

2. Pay as you go

3. System administration as a service

4. True

5. Pay for racking, stacking, and powering servers

6. - High latency

- Multiple procurement cycles

7. Amazon EC2

8. False

9. having hundreds of thousands of customers aggregated in the cloud

10. - Software Development Kits (SDKs)

- AWS Command Line Interface (AWS CLI)

- AWS Management Console

**Module 2:**

1. - PURI

- NURI

- AURI

2. AWS Cost Explorer

3. False

4.

5. Basic, Developer, Business, Enterprise

6. AWS Pricing Calculator

7. Economies of scale

8. True

10. False

**Module 3**

1. AWS edge locations

2. decrease

3. True

4. AWS Regions

5. Fault tolerant, elastic and scalable

6. True

7. A data center can be used for more than one Availability Zone.

8. - Each Region is located in a separate geographic area.

- A Region is a physical location that has multiple Availability Zones.

9. multiple

10. False

**Module 4**

1. Security of the Cloud

2. - Encryption of data at rest and data in transit

-Security group configurations

3. Maintaining physical hardware

4. - AWS Management Console access

- Programmatic access

5. True

6. - Manage access to AWS resources

- Define fine-grained access rights.

7. Change the AWS support plan

8. Delete the access keys of the AWS account root user

or

Delete root user access keys

9. Enable multi-factor authentication

10. False

**Module 5**

1. /28

2. /16

3. NAT Gateway

4. Amazon Virtual Private Cloud (Amazon VPC)

5. False

6. AWS edge locations

7. Network ACL

8. A main route table is created by default.

9. Security group

10. 251

**Module 6**

1. Amazon EC2 instances can be launched on-demand when needed.

2. Scheduled Reserved Instances

3. All of the above

4. Dedicated Instances

5. AWS Lambda

6. AWS Elastic Beanstalk

7. Run four Reserved Instances constantly, then add eight On-Demand Instances on the last day of each month.

8. False

9. Reserved Instances

10. - Amazon EC2 instance type

- Amazon Machine Image (AMI)

**Module 7:**

1. True

2. in multiple Availability Zones within the same Region

3. - Simple Storage Service Glacier

- S3 - Infrequent Access

- S3 - Standard Access

4. worldwide across all AWS accounts

5. implement storage for Amazon EC2 instances that multiple virtual machines can access at the same time.

6. - requires an encryption solution

- must be quickly accessible, requiring long-term persistence

7. False

8. A container for storing archives

9. True

10. - Amazon EBS volumes can be encrypted transparently to workloads on the attached instance.

- Data stored on Amazon EBS is automatically replicated within an Availability Zone.

**Module 8**

1. Amazon DynamoDB

2. Scan

3. All of the above

4. Amazon Redshift

5. a fundamental data element

6. Amazon DynamoDB

7. Complex transactions

8. Amazon Aurora

9. True

10. All of the above

**Module 9**

1. Tranceability

2. Assume everything will fail

3. Security

Operational Excellence

Cost Optimization

4. Use serverless architecture

Democratize advanced technologies

5. Performance, cost optimization, security, fault tolerance, service limits

6. Minimising

7. AWS Trusted Advisor

8. Reliability

9. Fault Tolerance

10. Highly available

**Module 10**

1. Amazon EC2 Auto Scaling

Elastic Load Balancing

2. Amazon Simple Notification Service (Amazon SNS)

3. Responds to changing conditions by adding or terminating instances

Launches instances from a specified Amazon Machine Image (AMI)

Enforces a minimum number of running Amazon EC2 instances

4. A listener

5. Amazon Machine Image (AMI)

Instance type

Amazon Elastic Block Store (Amazon EBS) volumes

6. Amazon CloudTrail

7. Maximum size

Desired capacity

Minimum size

8. AWS CloudTrail

9. Stops routing traffic to that target

Resumes routing traffic when it detects that the target is healthy again

Routes traffic to a healthy target

10. Application Load Balancer

Network Load Balancer

Classic Load Balancer