Cloud Computing & DevOps Quiz

Instructions: Select the best answer(s). Multi-select where noted.

Q1. Which AWS service provides *serverless* event-driven compute?

    (A) Amazon EC2

    (B) AWS Lambda

    (C) Amazon RDS

    (D) Amazon ECS

Q2. (Multi-select) *Infrastructure as Code* tools include:

    (A) Terraform

    (B) AWS CloudFormation

    (C) Ansible

    (D) Grafana

Q3. Blue-green deployment aims to:

    (A) Achieve zero downtime by running two identical production environments

    (B) Split traffic 50-50 for A/B testing

    (C) Encrypt data at rest

    (D) Reduce storage cost

Q4. A Kubernetes `Service` object primarily:

    (A) Manages container images

    (B) Exposes a set of Pods as a stable network endpoint

    (C) Provides persistent storage

    (D) Scales worker nodes horizontally

Q5. In a CI pipeline, an *artifact* refers to:

    (A) Source code under version control

    (B) Compiled output packaged for deployment

    (C) Bug-tracking report

    (D) Monitoring dashboard

Q6. (Multi-select) Cloud cost-optimization strategies include:

(A) Rightsizing instances

(B) Purchasing reserved instances

(C) Increasing replication factor arbitrarily

(D) Autoscaling

Q7. Prometheus is mainly used for:

(A) Log aggregation

(B) Metrics collection and alerting

(C) Container orchestration

(D) Access control