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**Grade** **10.00** out of 10.00 (**100%**)

**Question 1**

Correct

Mark 1.00 out of 1.00

Which tool in MLOps is commonly used to track experiments and version models?

- a. Jenkins
- b. MLflow 
- c. AWS S3
- d. Flask

Your answer is correct.

The correct answer is: MLflow

**Question 2**

Correct

Mark 1.00 out of 1.00

What does Infrastructure as Code (IaC) accomplish in an MLOps workflow?

- a. Manages the deployment of serverless functions in ML models.
- b. Automates the management and deployment of cloud infrastructure. 
- c. Handles data ingestion and transformation.
- d. Provides a code-based approach for hyperparameter tuning.

Your answer is correct.

The correct answer is: Automates the management and deployment of cloud infrastructure.

**Question 3**

Correct

Mark 1.00 out of 1.00

What is the primary benefit of using Kubernetes in MLOps?

- a. Enhances visualization of ML data in Jupyter Notebooks.
- b. Manages containers at scale, providing load balancing, scaling, and automation. 
- c. Tracks and version controls data across ML workflows.
- d. Simplifies the process of creating machine learning algorithms.

Your answer is correct.

The correct answer is: Manages containers at scale, providing load balancing, scaling, and automation.

**Question 4**

Correct

Mark 1.00 out of 1.00

Which of the following best describes MLOps?

- a. A set of practices that combines ML and DevOps to streamline the ML lifecycle. 
- b. A method to create new machine learning algorithms
- c. A framework for data visualization in ML projects.
- d. A process for training models without using data.

Your answer is correct.

The correct answer is: A set of practices that combines ML and DevOps to streamline the ML lifecycle.

**Question 5**

Correct

Mark 1.00 out of 1.00

Which certification focuses on building and deploying ML models in a production environment?

- a. Google Professional ML Engineer 
- b. CompTIA Security+
- c. AWS Certified Solutions Architect

Your answer is correct.

The correct answer is: Google Professional ML Engineer

**Question 6**

Correct

Mark 1.00 out of 1.00

In MLOps, which of the following is used to detect data drift?

- a. Population Stability Index (PSI) 
- b. Terraform
- c. Dockerfile
- d. GitLab CI/CD

Your answer is correct.

The correct answer is: Population Stability Index (PSI)

**Question 7**

Correct

Mark 1.00 out of 1.00

Which of the following is a key tool used for containerization in MLOps?

- a. Docker 
- b. GitHub Actions
- c. Prometheus
- d. Terraform

Your answer is correct.

The correct answer is: Docker

**Question 8**

Correct

Mark 1.00 out of 1.00

What does CI in CI/CD stand for in the context of MLOps?

- a. Continuous Improvement
- b. Collaborative Intelligence
- c. Container Infrastructure
- d. Continuous Integration 

Your answer is correct.

The correct answer is: Continuous Integration

**Question 9**

Correct

Mark 1.00 out of 1.00

Which serverless service is ideal for deploying event-driven ML models?

- a. Kubernetes
- b. Docker
- c. Apache Spark
- d. AWS Lambda 

Your answer is correct.

The correct answer is: AWS Lambda

**Question 10**

Correct

Mark 1.00 out of 1.00

In MLOps, what is the purpose of AutoML?

- a. Automates the ML pipeline, including data cleaning, model selection, and hyperparameter tuning. 
- b. Automates infrastructure deployment in cloud environments.
- c. Streamlines data ingestion and cleaning.
- d. Handles containerization of ML models.

Your answer is correct.

The correct answer is: Automates the ML pipeline, including data cleaning, model selection, and hyperparameter tuning.