Question 1

Correct

Mark 1.00 out of 1.00

What component of Kubernetes is responsible for scheduling Pods on nodes?

○ a.   API Server

◉ b.   Kubernetes Scheduler ✔

○ c.   Controller Manager

○ d.   Kubelet

Question 2

Correct

Mark 1.00 out of 1.00

What is the function of etcd in Kubernetes?

○ a.   It schedules workloads across nodes

○ b.   It balances network traffic

○ c.   It runs application containers

◉ d.   It acts as the primary database for cluster state information ✔

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a core component of the Kubernetes Master Node?

○ a.   Controller Manager

◉ b.   Kubelet ✔

○ c.   API Server

○ d.   etcd

Question 4

Correct

Mark 1.00 out of 1.00

Which component ensures that the desired state of the cluster matches the actual state?

- ○ a. API Server
- ○ b. Kube Proxy
- ○ c. Kubelet
- ◉ d. Controller Manager ✔

Question 5

Correct

Mark 1.00 out of 1.00

What is the primary purpose of Kubernetes?

- ○ a. Replacing virtual machines
- ○ b. Managing databases
- ◉ c. Automating the deployment, scaling, and management of containerized applications ✔
- ○ d. Providing a programming language for cloud applications

Question 6

Correct

Mark 1.00 out of 1.00

What is the function of the Kubernetes API Server?

- ◉ a. It provides an interface for managing the cluster ✔
- ○ b. It runs application workloads
- ○ c. It stores the cluster state persistently
- ○ d. It balances network traffic

Question 7

Correct

Mark 1.00 out of 1.00

What does Kube Proxy do in Kubernetes?

- ○ a. It provides persistent storage for Pods
- ○ b. It schedules Pods on nodes
- ○ c. It stores all cluster information
- ◉ d. It manages networking rules and service discovery ✔

Question 8

Correct

Mark 1.00 out of 1.00

How do Worker Nodes communicate with the Kubernetes Control Plane?

- ○ a. Through SSH connections
- ● b. Using REST API calls via the API Server ✔
- ○ c. By writing logs to disk
- ○ d. Through etcd directly

Question 9

Correct

Mark 1.00 out of 1.00

Which of the following best describes the role of the Kubelet?

- ○ a. It runs on the master node to manage API requests
- ○ b. It stores cluster configuration data
- ● c. It ensures that containers are running on a node and reports status to the control plane ✔
- ○ d. It schedules workloads to different nodes

Question 10

Correct

Mark 1.00 out of 1.00

What is a Kubernetes Pod?

- ● a. A collection of containers that share network and storage resources ✔
- ○ b. A database service in Kubernetes
- ○ c. A security mechanism for running containers
- ○ d. A virtual machine in Kubernetes