Started on	Thursday, 20 February 2025, 5:28 PM
State	Finished
Completed on	Thursday, 20 February 2025, 5:32 PM
Time taken	3 mins 52 secs
Marks	10.00/10.00
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

How do Worker Nodes communicate with the Kubernetes Control Plane?

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

Question 2

Correct

Mark 1.00 out of 1.00

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

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

Question 3

Correct

Mark 1.00 out of 1.00

What is the function of the Kubernetes API Server?

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

Question 4

Correct

Mark 1.00 out of 1.00

What is a Kubernetes Pod?

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

Question 5

Correct

Mark 1.00 out of 1.00

What is the primary purpose of Kubernetes?

- ○ a. Managing databases
- ○ b. Replacing virtual machines
- ◉ 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 etcd in Kubernetes?

- ○ a. It runs application containers
- ○ b. It schedules workloads across nodes
- ◉ c. It acts as the primary database for cluster state information
- ○ d. It balances network traffic

Question 7

Correct

Mark 1.00 out of 1.00

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

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

Question 8

Correct

Mark 1.00 out of 1.00

What does Kube Proxy do in Kubernetes?

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

Question 9

Correct

Mark 1.00 out of 1.00

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

- ◉ a. Kubernetes Scheduler
- ○ b. API Server
- ○ c. Kubelet
- ○ d. Controller Manager

Question 10

Correct

Mark 1.00 out of 1.00

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

- ○ a. API Server
- ○ b. Controller Manager
- ○ c. etcd
- ◉ d. Kubelet