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Grade	7.00 out of 10.00 (70%)

Question 1

Incorrect

Mark 0.00 out of 1.00

In SDN architecture, what is the function of the control plane?

- a.   Centralizes the network controller ✗
- b.   Decouples the control and data planes
- c.   Carries signaling and routing message traffic
- d.   Carries payload data traffic

The correct answer is: Carries signaling and routing message traffic

Question 2

Correct

Mark 1.00 out of 1.00

What technology enables the delivery of virtual desktops to end-user devices using Remote Desktop Protocol (RDP)?

- a.   Virtual Desktop Infrastructure (VDI) ✓
- b.   Software Defined Networking (SDN)
- c.   Containerization
- d.   Network Function Virtualization (NFV)

The correct answer is: Virtual Desktop Infrastructure (VDI)

Question 3

Incorrect

Mark 0.00 out of 1.00

What is the difference between a VM image and a VM instance?

○ a.   VM image contains the entire OS and application stack, while a VM instance is a virtual representation of hardware resources.

○ b.   VM image is a snapshot of a running VM, while a VM instance is the actual running VM.

◉ c.   VM image is immutable, while a VM instance can be modified during runtime. ✗

○ d.   VM image is stored on a physical server, while a VM instance is stored in a virtual environment.

The correct answer is: VM image contains the entire OS and application stack, while a VM instance is a virtual representation of hardware resources.

Question 4

Correct

Mark 1.00 out of 1.00

Which technology leverages virtualization to consolidate heterogeneous network devices onto industry-standard high-volume servers, switches, and storage?

○ a.   SDN

○ b.   Docker

◉ c.   NFV ✓

○ d.   VDI

The correct answer is: NFV

Question 5

Correct

Mark 1.00 out of 1.00

What is the standard communication interface used in SDN architecture for communication between the control and infrastructure layers?

○ a.   • OpenStack

○ b.   Kubernetes

○ c.   Docker Swarm

◉ d.   OpenFlow ✓

The correct answer is: OpenFlow

Question 6

Correct

Mark 1.00 out of 1.00

Which component of Docker is responsible for managing containers and their lifecycle?

- ○ a.   Docker Swarm
- ○ b.   Docker Compose
- ◉ c.   Docker Engine ✓
- ○ d.   Docker Registry

The correct answer is: Docker Engine

Question 7

Correct

Mark 1.00 out of 1.00

What technology uses a standard communication interface called OpenFlow for communication between the SDN controller and network devices?

- ○ a.   Kubernetes
- ○ b.   Docker
- ○ c.   NFV
- ◉ d.   SDN ✓

The correct answer is: SDN

Question 8

Correct

Mark 1.00 out of 1.00

Which technology allows for the creation of lightweight, portable, and consistent environments for running applications, thereby offering the primary advantage of faster deployment time over traditional virtualization?

- ◉ a.   Docker ✓
- ○ b.   VMware
- ○ c.   OpenStack
- ○ d.   Kubernetes

The correct answer is: Docker

Question 9

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a key element of NFV architecture?

- ○ a.   NFV Orchestrator (NFVO)
- ○ b.   Virtualized Network Function (VNF)
- ○ c.   NFV Infrastructure (NFVI)
- ◉ d.   Virtual Desktop Infrastructure (VDI) ✓

The correct answer is: Virtual Desktop Infrastructure (VDI)

Question 10

Incorrect

Mark 0.00 out of 1.00

What is the role of OpenFlow protocol in SDN?

- ◉ a.   Provides a standard communication interface ✗
- ○ b.   Decouples the control and data planes
- ○ c.   Facilitates programmable network control
- ○ d.   Centralizes the network controller

The correct answer is: Facilitates programmable network control