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Question: 1

Which of the following are considered core components of a network infrastructure?
(Choose Two)

Response:

- A. Switches
- B. Routers
- C. Workstations
- D. Firewalls

Answer: A,B

Question: 2

In a TCP/IP model, which layer corresponds to the OSI model's Session, Presentation, and Application layers?

Response:

- A. Application Layer
- B. Transport Layer
- C. Internet Layer
- D. Network Interface Layer

Answer: A

Question: 3

What are the core functions of a network gateway?
(Choose Two)

Response:

- A. Protocol conversion
- B. Data backup
- C. Rate limiting
- D. Traffic routing

Answer: A,D

Question: 4

Which technology is employed to create multiple virtual networks on a single physical network?

(Choose Two)

Response:

- A. OSPF
- B. VLAN
- C. VPN
- D. Multiplexer

Answer: B,C

Question: 5

What are the responsibilities of the transport layer?

(Choose Three)

Response:

- A. Session multiplexing
- B. End-to-end connection establishment
- C. Data encryption
- D. Reliable data transfer
- E. Media access control

Answer: A,B,D

Question: 6

What differentiates a router from a switch in terms of network functionality?

Response:

- A. A router is only used in large networks, whereas a switch is used in small home networks.
- B. A router provides a user interface, whereas a switch does not.
- C. A router connects multiple networks, whereas a switch connects multiple devices within a single network.
- D. A router is less secure than a switch.

Answer: C

Question: 7

What technology is typically used to create virtualized network functions (VNFs) in modern networks?
Response:

- A. Content Delivery Network (CDN)
- B. Virtual Local Area Network (VLAN)
- C. Network Functions Virtualization (NFV)
- D. Direct Server Return (DSR)

Answer: C

Question: 8

How do modern enterprise networks typically ensure data security across all networked devices?
Response:

- A. By using a centralized server for all data operations
- B. By deploying end-to-end encryption
- C. By limiting access to the network to a select few devices
- D. By enforcing strict physical access controls to networking hardware

Answer: B

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