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QUESTION 1

Fill in the blank with the appropriate term. The layer establishes, manages, and terminates the connections between the local and remote application.

Correct Answer: session

The session layer of the OSI/RM controls the dialogues (connections) between computers. It establishes, manages and terminates the connections between the local and remote application. It provides for full-duplex, half-duplex, or simplex operation, and establishes checkpointing, adjournment, termination, and restart procedures. The OSI model made this layer responsible for graceful close of sessions, which is a property of the Transmission Control Protocol, and also for session check pointing and recovery, which is not usually used in the Internet Protocol Suite. The Session Layer is commonly implemented explicitly in application environments that use remote procedure calls.

QUESTION 2

Which of the following protocols supports source-specific multicast (SSM)?

- A. DHCP
- B. ARP
- C. DNS
- D. BGMP

Correct Answer: D

QUESTION 3

Which of the following protocols is used for exchanging routing information between two gateways in a network of autonomous systems?

- A. IGMP
- B. ICMP
- C. EGP
- D. OSPF

Correct Answer: C

EGP stands for Exterior Gateway Protocol. It is used for exchanging routing information between two gateways in a network of autonomous systems. This protocol depends upon periodic polling with proper acknowledgements to confirm that network connections are up and running, and to request for routing updates. Each router requests its neighbor at an interval of 120 to 480 seconds, for sending the routing table updates. The neighbor host then responds by sending its routing table. EGP-2 is the latest version of EGP. Answer option B is incorrect. Internet Control Message Protocol (ICMP) is a maintenance protocol that allows routers and host computers to swap basic control information when data is

sent from one computer to another. It is generally considered a part of the IP layer. It allows the computers on a network to share error and status information. An ICMP message, which is encapsulated within an IP datagram, is very useful to troubleshoot the network connectivity and can be routed throughout the Internet. Answer option A is incorrect. Internet Group Management Protocol (IGMP) is a communication protocol that multicasts messages and information among all member devices in an IP multicast group. However, multicast traffic is sent to a single MAC address but is processed by multiple hosts. It can be effectively used for gaming and showing online videos. IGMP is vulnerable to network attacks. Answer option D is incorrect. Open Shortest Path First (OSPF) is a routing protocol that is used in large networks. Internet Engineering Task Force (IETF) designates OSPF as one of the Interior Gateway Protocols. A host uses OSPF to obtain a change in the routing table and to immediately multicast updated information to all the other hosts in the network.

QUESTION 4

The _____ protocol works in the network layer and is responsible for handling the error codes during the delivery of packets. This protocol is also responsible for providing communication in the TCP/IP stack.

- A. RARP
- B. ICMP
- C. ARP
- D. DHCP

Correct Answer: B

QUESTION 5

Which of the following systems monitors the operating system detecting inappropriate activity, writing to log files, and triggering alarms?

- A. Signature-Based ID system
- B. Host-based ID system
- C. Network-based ID system
- D. Behavior-based ID system

Correct Answer: B

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