Cisco

Exam 600-501

Integrating Business Applications with Network Programmability

Version: 6.0

[Total Questions: 66]

Question No : 1

Which option best describes explicit routing?

A. MPLS Traffic Engineering
B. destination-based routing
C. link-state routing
D. Shortest Path First
E. static routes

Answer: A

Question No : 2

What is the purpose of Address Resolution Protocol in an IP data network?

A. Given a known MAC address, Address Resolution Protocol discovers the relevant IP address.
B. Given a known IP address, Address Resolution Protocol discovers the relevant MAC address.
C. Given a known URL, Address Resolution Protocol discovers the relevant IP address.
D. Given a known IP address, Address Resolution Protocol discovers the relevant URL.

Answer: B

Question No : 3

Which factor limits the maximum number of IEEE 802.1Q VLANs to 4096?

A. the length of the VLAN ID field of the 802.1Q frame
B. the length of the Tag Protocol ID field of the 802.1Q frame
C. the size of the TCAM memory of the Layer 2 switch
D. the size of the VLAN table of the Layer 2 switch

Answer: A

Question No : 4

Refer to the exhibit.

```
10.10.0.0/24
10.10.1.0/24
10.10.2.0/24
10.10.3.0/24.
```

What is the correct way to summarize these different routes into a single route?

A. 10.0.0.0/8
B. 10.10.0.0/16
C. 10.10.0.0/22
D. 10.10.3.0/22
E. 10.10.1.0/22

Answer: C

Question No : 5

What is the default administrative distance for a static route?

A. 0
B. 255
C. 1
D. 110
E. 254

Answer: C

Question No : 6

By default, which field in the IP packet header is used for forwarding?

A. source IP address

B. destination IP address

C. TTL

D. IP options

E. MPLS label

F. IP next hop

Answer: B

Question No : 7

Which two functions in the TLS protocol allow client/server applications to communicate? (Choose two.)

A. It supports NAT traversal at the protocol layer.

B. It uses a substitution cipher for encoding and a symmetric key for confidentiality.

C. It prevents eavesdropping, tampering, and message forgery, and a PKI provides user authentication.

D. It provides data-origin authentication instead of user-origin authentication.

Answer: A,C

Question No : 8

Refer to the exhibit.

CERTKILL

```
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix   . : localdomain
    Description . . . . . . . . . . . : Intel(R) PRO/1000 MT Network Connection
    Physical Address. . . . . . . . . : 00-0C-29-C2-18-FD
    DHCP Enabled. . . . . . . . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    Link-local IPv6 Address . . . . . : fe80::6831:bdcd:4a8e:3958%11(Preferred)
    IPv4 Address. . . . . . . . . . . : 192.168.255.186(Preferred)
    Subnet Mask . . . . . . . . . . . : 255.255.255.0
    Lease Obtained. . . . . . . . . . : Wednesday, January 22, 2014 4:46:41 PM
    Lease Expires . . . . . . . . . . : Thursday, January 23, 2014 11:43:28 PM
    Default Gateway . . . . . . . . . : 192.168.255.2
    DHCP Server . . . . . . . . . . . : 192.168.255.254
    DHCPv6 IAID . . . . . . . . . . . : 234884137
    DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-19-93-37-86-00-0C-29-C2-18-FD

    DNS Servers . . . . . . . . . . . : 192.168.255.2
    Primary WINS Server . . . . . . . : 192.168.255.2
    NetBIOS over Tcpip. . . . . . . . : Enabled

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix   . : localdomain
    Link-local IPv6 Address . . . . . : fe80::6831:bdcd:4a8e:3958%11
    IPv4 Address. . . . . . . . . . . : 192.168.255.186
    Subnet Mask . . . . . . . . . . . : 255.255.255.0
    Default Gateway . . . . . . . . . : 192.168.255.2
```

The exhibit shows the IP configuration of the only network adapter that is present in this host. There are problems accessing the resources on the local network and the Internet. Which two troubleshooting steps will help diagnose this problem? (Choose two.)

A. Ping the IP address of this adapter (192.168.255.186) to make sure that the interface is up.
B. Ping the DHCP server to make sure that the next IP lease will work.
C. Ping the DNS server or servers. If the ping fails, try to access the network resources by using IP addresses instead of hostnames.
D. Ping the IP address of the default gateway. If the ping fails, try to ping an IP address on the local LAN.
E. Use a different subnet mask, because the current mask is too narrow.
F. Ask the network administrator to reboot the DHCP server.

Answer: C,D

Question No : 9

Which two IP addresses can be used to reach multiple hosts simultaneously? (Choose two.)