Question 1

Which of the following is a characteristic of Link State protocols?

Options:

A- Routers send a copy of their entire routing table to their neighbors.

B- Routers send frequent periodic updates to the entire network.

C- Routers know the entire network topology.

D- Routers use hop-count to calculate their routing tables.

Answer:

C

Question 2

Which of the following about the displayed IP filter is TRUE?

```
*A:SRC_R1# show filter ip 1

===============================================================================
IP Filter
===============================================================================
Filter Id      : 1                          Applied       : Yes
Scope          : Template                    Def. Action   : Forward
Radius Ins Pt: n/a
CrCtl. Ins Pt: n/a
Entries        : 1
Description    : new-filter
-------------------------------------------------------------------------------
Filter Match Criteria : IP
-------------------------------------------------------------------------------
Entry          : 1
Description    : (Not Specified)
Log Id         : n/a
Src. IP        : 1.2.3.0/24
Src. Port      : None
Dest. IP       : 2.3.4.0/24
Dest. Port     : None
Protocol       : 6                          Dscp          : Undefined
ICMP Type      : Undefined                  ICMP Code     : Undefined
Fragment       : Off                        Src Route Opt : Off
Sampling       : Off                        Int. Sampling : On
IP-Option      : 0/0                        Multiple Option: Off
TCP-syn        : Off                        TCP-ack       : Off
Option-pres    : Off
Match action : Drop
Ing. Matches : 0 pkts
Egr. Matches : 0 pkts

===============================================================================
```

Options:

A- TCP (protocol 6) traffic between addresses 1.2.3.0/24 and 2.3.4.0/24 is dropped.

B- TCP (protocol 6) traffic from source address 1.2.3.0/24 to destination address 2.3.4.0/24 is forwarded.

C- TCP (protocol 6) traffic from source address 2.3.4.0/24 to destination address 1.2.3.0/24 is dropped.

D- TCP (protocol 6) traffic from source address 1.2.3.0/24 to destination address 2.3.4.0/24 is dropped.

Answer:

A

Question 3

Question Type: MultipleChoice

What problem was Spanning Tree Protocol (STP) primarily designed to solve?

Options:

A- Broadcast storms caused by redundancy in Layer 2 networks.

B- Missing protocol field in the Ethernet header.

C- Missing sequence number in the Ethernet header.

D- Unreliable data transfer in Layer 2 networks.

Answer:

A

Question 4

Question Type: MultipleChoice

What is the preference value in the routing table used for?

Options:

A- To select from routes with different next-hops.

B- To select from routes with different costs.

C- To select from routes learned from different routing protocols.

D- To select from routes with different prefixes.

Answer:

C

Question 5

Question Type: **MultipleChoice**

Which of the following statements about the OSPF HELLO message is TRUE?

Options:

A- It is used to maintain adjacency between neighbors.

B- It is used to request link state updates from neighbors.

C- It is used to deliver link state updates to neighbors.

D- It is used to confirm delivery of updates between neighbors.
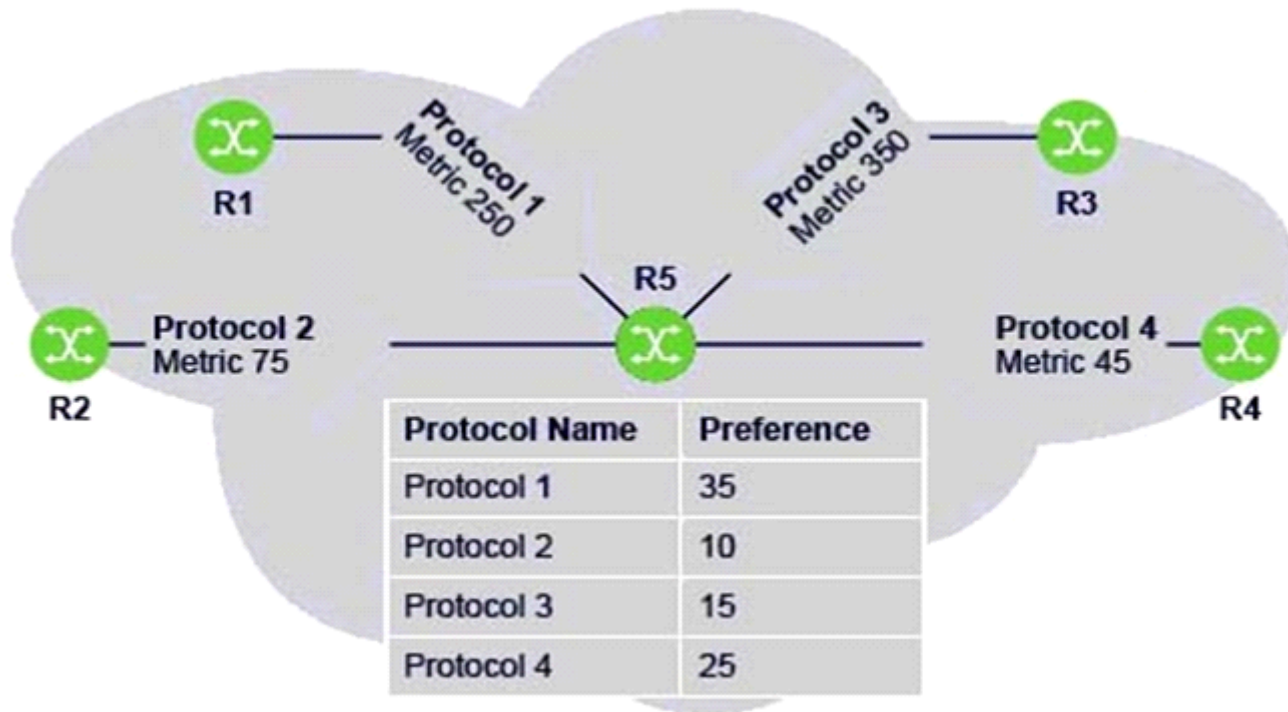
Answer:

A

Question 6

Router R5 receives four route updates for the same prefix 10.10.10.1/32. Which of the four routes will be installed in R5's routing table?

R1

Protocol 1
Metric 250

Protocol 3
Metric 350

R3

R5

Protocol 2
Metric 75

Protocol 4
Metric 45

R2

R4

Protocol Name	Preference
Protocol 1	35
Protocol 2	10
Protocol 3	15
Protocol 4	25

Options:

A- Route learned from router R1.

B- Route learned from router R2.

C- Route learned from router R3.

D- Route learned from router R4.

Answer:

B

Question 7

Question Type: MultipleChoice

Which of the following statements about IP filters on a Nokia 7750 SR is TRUE?

Options:

A- Multiple ingress IP filters can be used on a single interface.

B- An IP filter can be applied to the management port.

C- The same IP filter can be used on multiple interfaces.

D- Only one IP filter can be defined per router.

Answer:

C

Question 8

What type of MAC address is ff:ff:ff:ff:ff:ff?

Options:

A- Unicast

B- Multicast

C- Broadcast

D- Anycast

Answer:

c