

# H12-221<sup>Q&As</sup>

HCIP-Routing & Switching-IERS V2.5

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**QUESTION 1**

Which of these statements is true when configuring MD5 authentication between BGP peers?

- A. All routers in the same AS must use the same MD5 password.
- B. A pair of BGP peers must use the same MD5 password.
- C. All BGP peers must use the same MD5 password.
- D. Every BGP peer of a router must use a unique MD5 password.

Correct Answer: B

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**QUESTION 2**

Which of the following statements are correct regarding BGP attributes? (Select 2 answers)

- A. Till now, there are 16 BGP attributes
- B. BGP attribute can be extended to 256 types
- C. Well known discretionary attribute may not be included in each BGP update message, such as origin attribute
- D. AS\_PATH is an optional transitive attribute

Correct Answer: AB

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**QUESTION 3**

How many hosts can the network 154.27.0.0 support, if not subnetted?

- A. 254
- B. 1024
- C. 65,534
- D. 16,777,206

Correct Answer: C

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**QUESTION 4**

You are using the address space 172.28.100.0/24. If the subnet mask 172.28.100.0/30 is used to subnet this address space to serve WAN links, how many total subnets can the address space be divided into?

- B. 64

C. 126

D. 254

Correct Answer: B

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**QUESTION 5**

Which statement about OSPF is false?

A. The router with a higher Router Priority has a higher DR election priority.

B. When two routers have the same Router Priority, the one with a larger value for Router ID has a higher DR election priority.

C. If a DR fails, the BDR automatically takes over as the DR and a new BDR is elected.

D. If a BDR fails, the DR will not take over as the BDR and waits for the fault recovery to handle the situation. No new BDR will be elected.

Correct Answer: D

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**QUESTION 6**

Which type of BGP route can be added to the BGP routing table?

A. All BGP routes learned from peers

B. Only the routes learned from IBGP peers

C. Only the routes learned from EBGP peers

D. Only optimal routes

Correct Answer: A

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**QUESTION 7**

Which of the following BGP attributes is an optional transitive attribute?

A. ORIGIN

B. AS\_PATH

C. NEXT\_HOP

D. MED

E. LOCAL\_PREF

F. COMMUNITY

Correct Answer: F

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**QUESTION 8**

Generally, the performance of an IP-prefix-filter is greater than that of an ACL.

- A. TRUE
- B. FALSE

Correct Answer: A

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**QUESTION 9**

BGP peers are automatically discovered by exchanging multicast packets.

- A. TRUE
- B. FALSE

Correct Answer: B

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**QUESTION 10**

What is the maximum number of bits that can be used for subnetting, when the network address is a Class C address?

- A. 6
- B. 8
- C. 12
- D. 14

Correct Answer: A

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**QUESTION 11**

Which of the following route entries matches ACL 2001 that is defined below? 1.0.0.0/8, 1.2.0.0/16, 1.2.3.0/24, 1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24, 1.2.7.0/24, 1.2.8.0/24  
ACL 2001: Basic ACL 2001, 1 rule Ad\\'s step is 5 rule 0 permit source 1.2.1.0 0.0.254.255

- A. 1.2.3.0/24, 1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24, 1.2.7.0/24, 1.2.8.0/24
- B. 1.0.0.0/8, 1.2.0.0/16, 1.2.3.0/24, 1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24, 1.2.7.0/24, 1.2.8.0/24
- C. 1.2.3.0/24, 1.2.5.0/24, 1.2.7.0/24
- D. 1.2.0.0/16, 1.2.4.0/24, 1.2.6.0/24, 1.2.8.0/24

Correct Answer: C

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**QUESTION 12**

Which of the following are multicast routing protocols? (Select 3 answers)

- A. DVMRP
- B. PIM-DM
- C. OSPF
- D. PIM-SM

Correct Answer: ABD

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**QUESTION 13**

A company reserves the network segment 172.29.100.0/26 for some remote small-scale sites. Each site has 5 IP devices to connect to this network segment. Which of these Variable Length Subnet Masks (VLSMs) can be used to accommodate the need for minimum number of hosts?

- A. /27
- B. /28
- C. /29
- D. /30

Correct Answer: C

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**QUESTION 14**

Which of the following statements regarding the MED attribute are true? (Select 3 answers)

- A. Based on BGP route selection rules, the MED has precedence over the AS\_Path, Preferred- Value, Local-Preference, and Origin attributes.
- B. The MED of a BGP route is 100 by default.
- C. Generally, BGP compares only the MEDs of routes received from the same AS but if the "comparedifferent-as-med" command is configured, BGP can compare the MEDs of the routes received from multiple ASs.
- D. the default MED value 0 on a BGP indicates that the route is not specified. If the bestroute med-noneas-maximum command is configured, the maximum MED value that can be set is 4294967295.

Correct Answer: ACD

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**QUESTION 15**

Which of the following BGP attributes can prevent routing loops? (Select 3 answers)

- A. Originator\_ID
- B. Aggregator
- C. Cluster\_List
- D. AS-Path

Correct Answer: ACD

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