

# Huawei

## Exam H12-221

**HCNP-R&S-IERN (Huawei Certified Network Professional-  
Implementing Enterprise Routing Network)**

Version: 6.0

**[ Total Questions: 225 ]**

**Question No : 1**

Enabling MD5 authentication between BGP peers can prevent DoS attacks that target BGP peers.

- A. TRUE
- B. FALSE

**Answer: A**

**Question No : 2**

Which of the following statements are correct regarding OSPF intra-area route calculation?(Select 2 answers)

- A. Each OSPF router uses only one Router LSA to describe the local active link state for an area.
- B. Each OSPF router uses more than one Router LSA to describe local active link state for an area.
- C. One Router LSA describes only one link,
- D. One Router LSA describes more than one link.

**Answer: A,D**

**Question No : 3**

Which of the following is the address range assigned byIANA for SSM service in IPv4?

- A. 232.0.0.0/24
- B. 225.0.0.0/8
- C. 232.0.0.0/8
- D. 239.0.0.0/8

**Answer: D**

**Question No : 4**

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

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

**Answer: A,B,D**

**Question No : 5**

Which of the following route entries match the IP-Prefix defined below?

```
ip ip-prefix test index 10 permit 192.168.0.0 16 greater-equal 24 less-equal 28
```

(Select 2 answers)

- A. 192.168.1.0/24
- B. 192.10.2.0/24
- C. 192.168.3.0/25
- D. 192.168.4.0/30

**Answer: A,C**

**Question No : 6**

Which of the following is the multicast distribution tree maintained by PIM-DM?

- A. SFT
- B. CBT
- C. RFT
- D. STP

**Answer: A**

**Question No : 7**

Which of the following attributes must exist in the BGP update messages? (Select 3 answers)

- A. LOCAL\_PREF
- B. NEXT\_HOP
- C. ORIGIN
- D. AS\_PATH

**Answer: B,C,D**

**Question No : 8**

In OSPF protocol, Different types of networks cannot establish an adjacency with each other in the Full state.

- A. TRUE
- B. FALSE

**Answer: B**

**Question No : 9**

What does an IP address of 0.0.0.0 indicate?

- A. Network address
- B. Broadcast address of specially designated network segment
- C. All networks
- D. Broadcast address of all nodes of local network segment

**Answer: C**

**Question No : 10**

The unicast and multicast technologies are both outstanding in solving the problem of "single source, multiple destinations" in order to allow efficient P2MP data transmission.

- A. TRUE

B. FALSE

Answer: B

**Question No : 11**

Which of the following connection types can a Router LSA describe? (Select 3 answers)

- A. Point-to-point
- B. Star
- C. Transit
- D. Virtual link

Answer: A,C,D

**Question No : 12**

BGP peers are automatically discovered by exchanging multicast packets.

- A. TRUE
- B. FALSE

Answer: B

**Question No : 13**

Which of the following describes the relationship between BGP and AS?

- A. BGP only runs between ASs, and cannot run within an AS.
- B. BGP is an EGP used by ASs to exchange routing information with other ASs.
- C. BGP builds network topologies by exchanging link-state information between ASs.
- D. BGP cannot run between ASs.

Answer: B

**Question No : 14**

If the subnet mask for Class A address is 255.255.240.0, how many bits are used for subnetting?

- A. 4
- B. 5
- C. 9
- D. 12

**Answer: D**

**Question No : 15**

When running in non-broadcast networks, OSPF uses one of the two modes: NBMA or P2MP.

- A. TRUE
- B. FALSE

**Answer: A**

**Question No : 16**

Which of the following is a private AS number?

- A. 65410-65535
- B. 1-64511
- C. 64512-65535
- D. 64511-65535

**Answer: C**

**Question No : 17**

Which statements regarding BGP well-known mandatory attributes are true? (Select 3 answers)

- A. Well-known mandatory attributes must be recognized by all BGP routers.

- B. Well-known mandatory attributes impacts the path decision process.
- C. Well-known mandatory attributes are optional in an Update packet, and can be included in an Update packet as needed.
- D. Well-known mandatory attributes must be included in all Update packets.

**Answer: A,B,D**

**Question No : 18**

The router ID which is configured in the system view takes precedence over the router ID configured in the BGP view.

- A. TRUE
- B. FALSE

**Answer: B**

**Question No : 19**

Which of the following IP addresses are network addresses? (Select 2 answers)

- A. 64.104.3.7/28
- B. 192.168.12.64/26
- C. 192.135.12.191/26
- D. 198.18.12.16/28

**Answer: B,D**

**Question No : 20**

OSPF uses SPF algorithm to compute the SPF tree based on the topology. What is the node of the 5PF tree?

- A. Router
- B. Router and network segment
- C. Port and network segment
- D. Router and port

**Answer: B**

**Question No : 21**

By default, the cost of an OSPF interface is calculated based on the bandwidth. The formula to calculate the cost is reference bandwidth/interface bandwidth.

- A. TRUE
- B. FALSE

**Answer: A**

**Question No : 22**

The route selection tool "route-policy" can set and filter BGP attributes based on pre-defined conditions. Therefore, this tool is often used to define policies towards a BGP peer or during route generation.

- A. TRUE
- B. FALSE

**Answer: A**

**Question No : 23**

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

**Answer: C**

**Question No : 24**

The default-route originate command in the RIP protocol advertises a default RIP route to the peers. When using this command, which of the following attributes can be set for the default route?

- A. Tag
- B. Cost
- C. Interface
- D. Nexthop

**Answer: B**

**Question No : 25**

We can prevent a router from ever becoming a DR or BDR by configuring an OSPF Priority of zero,

- A. TRUE
- B. FALSE

**Answer: A**

**Question No : 26**

What command must be configured to establish a BGP connection between indirectly connected EBGP peers?

- A. peer connect-interface
- B. peer valid-ttl-hops

- C. peer ignore
- D. peerebgp-max-hop

**Answer: D**

**Question No : 27**

Which of the following elements are used by Network LSA to describe broadcast or NBMA network segments in OSPF routing protocol? (Select 3 answers)

- A. Link ID
- B. Net mask
- C. Attached Router list
- D. Metric

**Answer: A,B,C**

**Question No : 28**

Based on BGP route selection rules, how are Origin attributes listed in descending order of priority?

- A. EGP > IGP > Incomplete
- B. IGP > Incomplete > EGP
- C. Incomplete > EGP > IGP
- D. IGP > EGP > Incomplete

**Answer: D**

**Question No : 29**

Which statement regarding BGP is false?

- A. BGP runs over TCP.
- B. BGP is an enhanced distance-vector routing protocol.
- C. BGP uses port number 189.
- D. BGP is an inter-AS routing protocol.