

# 200-101<sup>Q&As</sup>

Interconnecting Cisco Networking Devices Part 2 (ICND2)

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### QUESTION 1

Which statement describes the process ID that is used to run OSPF on a router?

- A. It is globally significant and is used to represent the AS number.
- B. It is locally significant and is used to identify an instance of the OSPF database.
- C. It is globally significant and is used to identify OSPF stub areas.
- D. It is locally significant and must be the same throughout an area.

Correct Answer: B

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### QUESTION 2

Which term describes a spanning-tree network that has all switch ports in either the blocking or forwarding state?

- A. converged
- B. redundant
- C. provisioned
- D. spanned

Correct Answer: A

Spanning Tree Protocol convergence (Layer 2 convergence) happens when bridges and switches have transitioned to either the forwarding or blocking state. When layer 2 is converged, root bridge is elected and all port roles (Root, Designated and Non-Designated) in all switches are selected.

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### QUESTION 3

Which two are advantages of static routing when compared to dynamic routing? (Choose two.)

- A. Configuration complexity decreases as network size increases.
- B. Security increases because only the network administrator may change the routing table.
- C. Route summarization is computed automatically by the router.
- D. Routing tables adapt automatically to topology changes.
- E. An efficient algorithm is used to build routing tables, using automatic updates.
- F. Routing updates are automatically sent to neighbors.
- G. Routing traffic load is reduced when used in stub network links.

Correct Answer: BG

<http://www.ciscopress.com/articles/article.asp?p=24090andseqNum=6>

<http://www.ciscopress.com/articles/article.asp?p=24090>

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#### QUESTION 4

What command visualizes the general NetFlow data on the command line?

- A. show ip flow export
- B. show ip flow top-talkers
- C. show ip cache flow
- D. show mls sampling
- E. show mls netflow ip

Correct Answer: C

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#### QUESTION 5

What does a router do if it has no EIGRP feasible successor route to a destination network and the successor route to that destination network is in active status?

- A. It routes all traffic that is addressed to the destination network to the interface indicated in the routing table.
- B. It sends a copy of its neighbor table to all adjacent routers.
- C. It sends a multicast query packet to all adjacent neighbors requesting available routing paths to the destination network.
- D. It broadcasts Hello packets to all routers in the network to re-establish neighbor adjacencies.

Correct Answer: C

Introduction to EIGRP Reference:

[http://www.cisco.com/en/US/tech/tk365/technologies\\_tech\\_note09186a0080093f07.shtml](http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a0080093f07.shtml)

**Feasible Successors** A destination entry is moved from the topology table to the routing table when there is a feasible successor. All minimum cost paths to the destination form a set. From this set, the neighbors that have an advertised metric less than the current routing table metric are considered feasible successors. Feasible successors are viewed by a router as neighbors that are downstream with respect to the destination. These neighbors and the associated metrics are placed in the forwarding table. When a neighbor changes the metric it has been advertising or a topology change occurs in the network, the set of feasible successors may have to be re-evaluated. However, this is not categorized as a route recomputation.

**Route States** A topology table entry for a destination can have one of two states. A route is considered in the Passive state when a router is not performing a route recomputation. The route is in Active state when a router is undergoing a route recomputation. If there are always feasible successors, a route never has to go into Active state and avoids a

route recomputation.

When there are no feasible successors, a route goes into Active state and a route recomputation occurs. A route recomputation commences with a router sending a query packet to all neighbors. Neighboring routers can either reply if they have feasible successors for the destination or optionally return a query indicating that they are performing a route recomputation. While in Active state, a router cannot change the next-hop neighbor it is using to forward packets. Once all replies are received for a given query, the destination can transition to Passive state and a new successor can be selected. When a link to a neighbor that is the only feasible successor goes down, all routes through that neighbor commence a route recomputation and enter the Active state.

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#### QUESTION 6

Which protocol provides a method of sharing VLAN configuration information between two Cisco switches?

- A. STP
- B. VTP
- C. 802.1Q
- D. RSTP

Correct Answer: B

Understanding VLAN Trunk Protocol (VTP)

[http://www.cisco.com/en/US/tech/tk389/tk689/technologies\\_tech\\_note09186a0080094c52.shtml](http://www.cisco.com/en/US/tech/tk389/tk689/technologies_tech_note09186a0080094c52.shtml)

Introduction VLAN Trunk Protocol (VTP) reduces administration in a switched network. When you configure a new VLAN on one VTP server, the VLAN is distributed through all switches in the domain. This reduces the need to configure the same VLAN everywhere. VTP is a Cisco- proprietary protocol that is available on most of the Cisco Catalyst series products.

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#### QUESTION 7

What are three benefits of GLBP? (Choose three.)

- A. GLBP supports up to eight virtual forwarders per GLBP group.
- B. GLBP supports clear text and MD5 password authentication between GLBP group members.
- C. GLBP is an open source standardized protocol that can be used with multiple vendors.
- D. GLBP supports up to 1024 virtual routers.
- E. GLBP can load share traffic across a maximum of four routers.
- F. GLBP elects two AVGs and two standby AVGs for redundancy.

Correct Answer: BDE

[http://www.cisco.com/en/US/docs/ios/12\\_2s/feature/guide/fs\\_glb2.html](http://www.cisco.com/en/US/docs/ios/12_2s/feature/guide/fs_glb2.html)

**Load Sharing** You can configure GLBP in such a way that traffic from LAN clients can be shared by multiple routers, thereby sharing the traffic load more equitably among available routers. Multiple Virtual Routers GLBP supports up to 1024 virtual routers (GLBP groups) on each physical interface of a router, and up to four virtual forwarders per group.

**Preemption** The redundancy scheme of GLBP enables you to preempt an active virtual gateway with a higher priority backup virtual gateway that has become available. Forwarder preemption works in a similar way, except that forwarder preemption uses weighting instead of priority and is enabled by default.

**Authentication** You can use a simple text password authentication scheme between GLBP group members to detect configuration errors. A router within a GLBP group with a different authentication string than other routers will be ignored by other group members.

[http://www.cisco.com/en/US/docs/switches/datacenter/sw/5\\_x/nx-s/unicast/configuration/guide/l3\\_glb.html](http://www.cisco.com/en/US/docs/switches/datacenter/sw/5_x/nx-s/unicast/configuration/guide/l3_glb.html)

**GLBP Authentication** GLBP has three authentication types: MD5 authentication Plain text authentication No authentication MD5 authentication provides greater security than plain text authentication. MD5 authentication allows each GLBP group member to use a secret key to generate a keyed MD5 hash that is part of the outgoing packet. At the receiving end, a keyed hash of an incoming packet is generated. If the hash within the incoming packet does not match the generated hash, the packet is ignored. The key for the MD5 hash can either be given directly in the configuration using a key string or supplied indirectly through a key chain. You can also choose to use a simple password in plain text to authenticate GLBP packets, or choose no authentication for GLBP.

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## QUESTION 8

What can be done to secure the virtual terminal interfaces on a router? (Choose two.)

- A. Administratively shut down the interface.
- B. Physically secure the interface.
- C. Create an access list and apply it to the virtual terminal interfaces with the access-group command.
- D. Configure a virtual terminal password and login process.
- E. Enter an access list and apply it to the virtual terminal interfaces using the access-class command.

Correct Answer: DE

It is a waste to administratively shut down the interface. Moreover, someone can still access the virtual terminal interfaces via other interfaces -> A is not correct.

We can not physically secure a virtual interface because it is "virtual" -> B is not correct.

To apply an access list to a virtual terminal interface we must use the "access-class" command. The "access-group" command is only used to apply an access list to a physical interface -> C is not correct; E is correct.

The most simple way to secure the virtual terminal interface is to configure a username and password to prevent unauthorized login -> D is correct.

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## QUESTION 9

In GLBP, which router will respond to client ARP requests?

- A. The active virtual gateway will reply with one of four possible virtual MAC addresses.
- B. All GLBP member routers will reply in round-robin fashion.
- C. The active virtual gateway will reply with its own hardware MAC address.
- D. The GLBP member routers will reply with one of four possible burned in hardware addresses.

Correct Answer: A

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#### QUESTION 10

Which two statements about the OSPF Router ID are true? (Choose two.)

- A. It identifies the source of a Type 1 LSA.
- B. It should be the same on all routers in an OSPF routing instance.
- C. By default, the lowest IP address on the router becomes the OSPF Router ID.
- D. The router automatically chooses the IP address of a loopback as the OSPF Router ID.
- E. It is created using the MAC Address of the loopback interface.

Correct Answer: AD

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#### QUESTION 11

What Cisco IOS feature can be enabled to pinpoint an application that is causing slow network performance?

- A. SNMP
- B. Netflow
- C. WCCP
- D. IP SLA

Correct Answer: B

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#### QUESTION 12

Refer to the exhibit.

```
R1#show ip eigrp topology
IP-EIGRP Topology Table for AS 100

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - Reply status

P 10.1.4.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/0
P 10.1.2.0/24, 1 successors, FD is 28160
   via Connected, FastEthernet0/1
P 172.16.4.0/24, 1 successors, FD is 30720
   via 10.1.4.4 (30720/28160), FastEthernet0/0
   via 10.1.2.2 (30976/28416), FastEthernet0/1
P 172.16.3.0/24, 1 successors, FD is 28416
   via 10.1.2.2 (28416/25856), FastEthernet0/1
```

What address is a feasible successor?

- A. 172.16.4.0
- B. 10.1.4.4
- C. 10.1.2.2
- D. 172.16.3.0

Correct Answer: C

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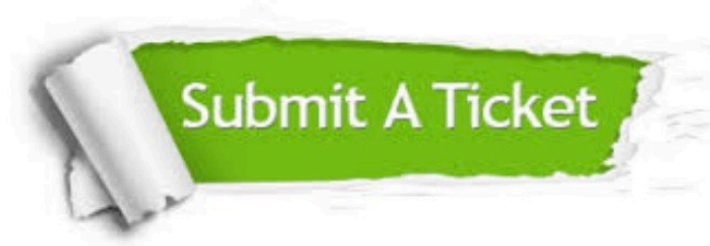
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