

1. Which three advantages are provided by static routing? (Choose three.)

- ☒ Static routing does not advertise over the network, thus providing better security.
- ☐ Configuration of static routes is error-free.
- ☐ Static routes scale well as the network grows.
- ☒ Static routing typically uses less network bandwidth and fewer CPU operations than dynamic routing does.
- ☒ The path a static route uses to send data is known.
- ☐ No intervention is required to maintain changing route information.

2. What are two functions of dynamic routing protocols? (Choose two.)

- ☒ to maintain routing tables
- ☐ to assure low router overhead
- ☐ to avoid exposing network information
- ☒ to discover the network
- ☐ to choose the path that is specified by the administrator

3. What is an advantage of using dynamic routing protocols instead of static routing?

- ☐ easier to implement
- ☐ more secure in controlling routing updates
- ☐ fewer router resource overhead requirements
- ☐ ability to actively search for new routes if the current path becomes unavailable

4. Which type of route would typically be used on a border router so that devices inside the company could access the Internet?

- ☐ Static
- ☐ default
- ☐ summary
- ☐ directly connected

5. What are two functions of a router? (Choose two.)

- ☐ A router connects multiple IP networks.
- ☐ It controls the flow of data via the use of Layer 2 addresses.
- ☐ It determines the best path to send packets.
- ☐ It provides segmentation at Layer 2.
- ☐ It builds a routing table based on ARP requests.

6. When a router learns that multiple paths are available to a destination network from the same routing protocol, which factor is considered by a router to choose the best path to forward a packet?

- ☐ the lowest metric
- ☐ the order of paths on the routing table
- ☐ the fastest bandwidth of exiting interfaces
- ☐ the reliability value of the neighboring routers

7. The output of the show ip route command contains

the following entry: S 10.2.0.0 [1/0] via 172.16.2.2.

What value is indicated by the 1 in the [1/0] portion of the output?

- ☐ metric
- ☐ number of hops
- ☐ administrative distance
- ☐ interface ID through which the network can be reached

8. What are two common types of static routes in routing tables? (Choose two)

- ☐ a default static route
- ☐ a built-in static route by IOS
- ☐ a static route to a specific network
- ☐ a static route shared between two neighboring routers
- ☐ a static route converted from a route that is learned through a dynamic routing protocol

9. What are two reasons why an administrator might choose to use static routing rather than dynamic routing? (Choose two.)

- ☐ Static routing is easier to maintain in large networks.
- ☐ Static routing is more secure.
- ☐ Static routing is more scalable.
- ☐ Static routing uses less router processing and bandwidth.
- ☐ Static routing does not require complete knowledge of the whole network.

10. What address and prefix length is used when configuring an IPv6 default static route?

- ☐ ::/0
- ☐ ::1/128

☐ 0.0.0.0/0

☐ FF02::1/8