Google IT Support Certificate: Course 2: The Bits and Bites of Computer Networking

Week 2: Network Layer

Practice Quiz: Routing

Question 1:

Which of the following are types of Interior Gateway Protocols? (Select all that apply)

Link State Routing Protocols

Distance-Vector Protocols.

Hypertext Transfer Protocol

Transmission Control Protocol

Interior gateway protocols are split into two categories: link state routing protocols and distance-vector protocols.

Question 2:

Who is permitted to use non-routable address space?

The IETF

Anyone

It's for testing purposes only

The IANA

Anyone can use non-routable address space.

Question 3:

A typical routing table may contain which of the following? Check all that apply.

Total Hops

Destination address

TTL

Destination Network

A routing table entry needs to know how many hops away a destination network is.

Routing tables would contain a row for each network that the router knows about. This is just the definition of the remote network, a network ID, and the net mask.

Question 4:

What is the difference between Interior Gateway Protocols and Exterior Gateway Protocols?

There is no difference between them.

Interior gateway protocols share information with public networks. Exterior gateway protocols are used for private networks.

Interior gateway protocols share information with multiple autonomous systems. Exterior Gateway Protocols are used for the exchange of information between independent autonomous systems.

Interior Gateway Protocols share information within a single autonomous system. Exterior Gateway Protocols are used for the exchange of information between multiple autonomous systems.

Interior gateway protocols are used on organization networks. Exterior gateway protocols are used to share information across different organizations.

Question 5:

Which of the following are non-routable IP addresses? (Select all that apply)

10.0.0.0/8

192.168.0.0/16.

9.0.0.0

172.16.0.0/12

RFC 1918 defined three ranges of IP addresses that belong to no one, so

anyone can use them. The primary three ranges of non-routable address space are 10.0.0.0/8, 172.16.0.0/12, and 192.168.0.0/16. These ranges are free for anyone to use for their internal networks.