

✔ Congratulations! You passed!

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higher

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1. What is eight bits of data called?

1 / 1 point

- ☐ Figure eight
- ☒ Octet
- ☐ Octoploid
- ☐ Octuplet

✔ Correct

2. A single octet in an IP address represents what range of decimal numbers?

1 / 1 point

- ☐ 1-255
- ☒ 0-255
- ☐ 0-155
- ☐ 0-250

✔ Correct

3. What is the process of taking a single IP datagram and splitting it up into several smaller datagrams called?

1 / 1 point

- ☐ Load balancing
- ☐ Clustering
- ☒ Fragmentation
- ☐ NAT firewall

✔ Correct

4. Generally, what are Class E IP addresses used for?

1 / 1 point

- ☐ Broadcasting
- ☐ Multicasting
- ☒ Testing
- ☐ CIDR

✔ Correct

5. Why do entries in a local Address Resolution Protocol (ARP) table expire after a short amount of time?

1 / 1 point

- ☒ To account for network changes
- ☐ To keep space in the table
- ☐ It only needs to be used one time
- ☐ It will use too much memory

✔ Correct

6. What is one main reason CIDR is helpful in modern networking?

1 / 1 point

- ☐ CIDR increases network security with no additional resources
- ☐ CIDR lowers the amount of power needed to run a server
- ☒ CIDR allows for more arbitrary network sizes
- ☐ CIDR simplifies MAC address assignment

✔ Correct

7. A router is performing basic routing functions. What is the second step in the transmission of a packet?

1 / 1 point

- ☒ The router examines the destination IP of this packet.
- ☐ Sent an ARP response.
- ☐ A router receives a packet of data.
- ☐ Check the routing table.

✔ Correct

8. Which of the following are a type of interior gateway protocol? (Choose all that apply)

1 / 1 point

- ☐ TFTP (Trivial File Transfer Protocol)
- ☐ RDP (Remote Desktop Protocol)
- ☒ Distance vector protocols

☒ Correct

☒ Link state routing protocols

☒ Correct

9. What organization helps manage IP address allocation and autonomous system number allocation?

1 / 1 point

☒ IANA

☐ INNA

☐ IBM

☐ ICANN

☒ Correct

10. Which of the following IP address ranges have been defined as non-routable address space? Select all that apply.

1 / 1 point

☒ 10.0.0.0/8

☒ Correct

☒ 192.168.0.0/16

☒ Correct

☒ 172.16.0.0/12

☒ Correct

☐ 255.255.255.0/1