

1. At the very lowest level, what data does a computer understand?

1 / 1 point

- ☐ Hexadecimal digits
- ☐ Media Access Control (MAC) addresses
- ☐ IP (Internet Protocol) addresses
- ☒ Binary numbers

✓ Correct

2. During the name resolution process, which server does a local recursive server contact first?

1 / 1 point

- ☐ Top level domain (TLD) server
- ☐ Authoritative name server
- ☒ Root name server
- ☐ Caching name server

✓ Correct

3. How many root name servers are there?

1 / 1 point

- ☐ 24
- ☐ 100
- ☒ 13
- ☐ 5

✓ Correct

4. What is the purpose of DNS round robin technique?

1 / 1 point

- ☐ To redirect traffic from one domain name to another
- ☐ To resolve an IP to a domain name
- ☐ To route traffic to different destinations, depending on factors like location, congestion, or link health
- ☒ To balance traffic

✓ Correct

5. What is the non-profit organization that handles administration and definition of TLDs?

1 / 1 point

- ☐ DHCP
- ☒ ICANN
- ☐ CNAME
- ☐ FQDN

✓ Correct

6. Which address does the field in DHCP OFFER specify?

1 / 1 point

- ☐ The Internet Protocol (IP) address
- ☐ The Gateway address
- ☒ The Media Access Control (MAC) address
- ☐ The Data Link Layer

✓ Correct

7. Network Address Translation (NAT) is typically implemented with which of these hardware devices?

1 / 1 point

- ☒ Routers
- ☐ Switches
- ☐ Hubs
- ☐ Servers

✓ Correct

8. What NAT technique allows for complete IP masquerading, while still having services that can respond to incoming traffic?

1 / 1 point

- ☐ Rewriting
- ☐ One-to-many
- ☒ Port forwarding
- ☐ Preservation

✓ Correct

9. VPNs often use an authentication procedure that requires a user to generate a short lived numerical token through a specialized piece of hardware or software, in addition to providing a username and password. What is this authentication procedure called?

1 / 1 point

- ☐ Certificate-based authentication
- ☐ Biometric authentication
- ☐ Password-based authentication
- ☒ Two-factor authentication

✓ Correct

10. Fill in the blank: A service that appears to external clients as a single server, but actually represents many servers behind it, is known as a \_\_\_\_\_.

1 / 1 point

- ☐ port preservation
- ☐ VPN
- ☒ reverse proxy
- ☐ multiplexer

✓ Correct