

Review Quiz

Networking Essentials Quiz Answers

Question 1: What is the maximum & minimum size of TCP header?

- Maximum size: 60 bytes (with options)
- Minimum size: 20 bytes (without options)

Question 2: In which of the following network links might you use SC connectors?

A fiber-optic connection between a server and router.

Question 3: What is the maximum cable length for Ethernet using unshielded twisted pair?

100 meters

Question 4: A folder with path D:\share\docs is being shared with default share name \\rosetta\docs

\\rosetta\docs

Question 5: When the majority of the Internet has moved to the IPv6 but some still use IPv4, what is the configuration called?

Dual stack

Question 6: To secure sending email, in term of confidentiality, application layer protocol is used

SMTPS/MIME

Question 7: In _____ resolution, the server returns the IP address of the server

Iterative

Question 8: _____ cryptography is often used for short messages

Symmetric key

Question 9: Which are the advantages of static routing?

- No routing or update mechanism are required
- Very secure because no advertisement are sent
- Easy to implement in a small network

Question 10: Match corresponding protocol with ports

- 25: SMTP
- 110: POP3
- 53: DNS
- 443: HTTPS

Question 11: What is the maximum data rate supported by Fast Ethernet?

100 Mbps

Question 12: Coding and decoding are functions of _____ layer

Presentation

Question 13: A _____ is a subtree of the domain name space.

Domain

Question 14: Encapsulating Security Payload (ESP) provides

- Privacy
- Data integrity
- Source authentication

Question 15: Routing inside an autonomous system is referred to as _____ routing

Intra-domain

Question 16: An IP datagram from the accounting program with encrypted header byte length and embedded in IP header option field. This implies the first byte of IP

48

Question 17: User ub must issue 2 commands to enable ua to read myfile.txt (use s

Code

```
$ chmod o+x /home/ub  
$ chmod o+r /home/ub/myfile.txt
```

Question 18: Given the network 192.168.1.0/24, subnet it into the following subnets:

- Subnet A (30 hosts): 192.168.1.0/27, broadcast address 192.168.1.31
- Subnet B (12 hosts): 192.168.1.32/28, broadcast address 192.168.1.47
- Subnet C (6 hosts): 192.168.1.48/29, broadcast address 192.168.1.55

Question 19: What are the features of EIGRP in term of Purpose, Operation and Beh

- Purpose: Interior gateway protocol for routing within an autonomous system
- Operation: Uses DUAL algorithm to find loop-free paths
- Behavior: Hybrid protocol combining distance vector and link state characteristics

Question 20: What is the octal value for read and execute permissions

5

Question 21: In a _____ name space, each name is made of several parts.

Hierarchical

Question 22: What is the symbolic notation for setting read, write, and execute per

u+rwx

Question 23: The correct command to add the static route on PC1 would be:

Code

```
$ip route add 10.0.0.0/255.255.255.252 via 192.168.1.1
```

Question 24: An IP datagram has arrived with the following information in the header:

- Identification number: 3
- How many more routers: 32

Question 25: _____ is the special packet that router sends back to the sender.
ICMP

Question 26: A binary file of 6200 bytes is transmitted over a TCP/IP network. How many segments are sent?
5

Question 27: Which of the following protocols do use 3-way handshake?

- HTTP
- POP3

Question 28: Which one is not the purpose of dynamic routing protocols?

Choosing the fastest path to destination networks

Question 29: A pointer query involves the _____ domain.

Reverse

Question 30: To restrict access permission for file priv.key to file's owner only. Which command is used?

Code

```
$ chmod 600 priv.key
```

Question 31: _____ means that the data must arrive at the receiver exactly as transmitted.
Message Integrity

Question 32: What is the command used to change linux file/directory permission?

chmod

Question 33: LAN switching operates at the _____ layer of the OSI model.

Data link (Layer 2)

Question 34: If an IPv6 address has digits of _____, we can abbreviate the address.

0s

Question 35: A client uses UDP to send data to a server. The data length is 16 bytes.

0.36 or 36% (Data (16 bytes) / Total (16 + 8 UDP + 20 IP = 44 bytes) = 16/44 = 0.36)