

CSE 4202 Final Lab Quiz

Total points 19/30 ?

Course Title: Computer Networks Sessional Date: 01/10/2024 (TUE 10:00 AM)

Time: 20 min

Marks: 30

Which protocol is used to send emails? *

1/1

- ☐ SSH
- ☐ FTP
- ☐ SNMP
- ☒ SMTP

Which command is used to display the active network connections on a computer?

0/1

- ☐ tracert
- ☒ nslookup
- ☐ netstat
- ☐ ping

Enter your ID *

190104

What is the main function of ARP (Address Resolution Protocol)? *

0/1

- ☐ To map IP addresses to MAC addresses
- ☐ To check if the destination host is reachable
- ☐ To resolve domain names to IP addresses
- ☒ To route packets through the network

Which protocol is used to securely log in to a remote machine? *

1/1

- ☐ Telnet
- ☐ RDP
- ☒ SSH
- ☐ FTP

Which command is used on a Cisco router to view the current routing table? 0/1

- ☐ show running-config
- ☐ show ip route
- ☐ show version
- ☒ show interfaces

Which of the following techniques helps reduce network congestion in large-scale networks? *1/1

- ☐ IPsec
- ☐ Tunneling
- ☒ Subnetting
- ☐ NAT

Which of the following protocols is used for dynamic host configuration? * 1/1

- ☐ DNS
- ☒ DHCP
- ☐ HTTP
- ☐ FTP

What is the primary function of a firewall in network security? *

1/1

- ☐ To encrypt network traffic
- ☒ To block unauthorized access to or from a network
- ☐ To assign IP addresses to devices
- ☐ To route traffic between networks

What type of cable is commonly used in wired Ethernet in LAN networks? *

1/1

- ☐ USB cable
- ☒ Twisted pair
- ☐ Fiber optic
- ☐ Coaxial cable

Which protocol is used to synchronize time between devices in a network? * 0/1

- ☒ ICMP
- ☐ TNP
- ☐ SNMP
- ☐ NTP

What is the size of an IPv6 address?

0/1

- ☒ 48 bits
- ☐ 64 bits
- ☐ 32 bits
- ☐ 128 bits

Which network topology provides the best fault tolerance? *

0/1

- ☒ Star
- ☐ Bus
- ☐ Mesh
- ☐ Ring

Which of the following is a valid IP address? *

1/1

- ☐ 192.168.300.1
- ☒ 10.0.0.1
- ☐ 192.168.1.256
- ☐ 255.256.255.0

Which of the following techniques is used in NAT (Network Address Translation)?

*0/1

- ☒ Address Resolution
- ☐ Data Encryption
- ☐ IP Fragmentation
- ☐ Port Address Translation (PAT)

Which of the following is an advantage of fiber optic cables over copper cables in networking?

*1/1

- ☐ Lower installation costs
- ☐ Easier to splice
- ☒ Higher bandwidth and longer transmission distances
- ☐ Higher susceptibility to electromagnetic interference

Which layer of the OSI model is responsible for end-to-end communication and reliability?

0/1

- ☐ Transport Layer
- ☒ Application Layer
- ☐ Network Layer
- ☐ Data Link Layer

Which of the following is NOT a characteristic of TCP?

1/1

- ☒ Faster than UDP
- ☐ Connection-oriented
- ☐ Reliable delivery
- ☐ Flow control

What does the acronym IP stand for? *

1/1

- ☐ Intranet Protocol
- ☒ Internet Protocol
- ☐ Instant Protocol
- ☐ Internal Protocol

What type of attack involves overwhelming a network or system with excessive traffic to make it unavailable?

*1/1

- ☐ Phishing
- ☒ Denial of Service (DoS)
- ☐ Ransomware
- ☐ Man-in-the-middle

Which protocol is used to translate human-readable domain names into IP addresses? *1/1

- ☐ DHCP
- ☐ TELNET
- ☒ DNS
- ☐ FTP

Which of the following is a characteristic of a peer-to-peer network? * 0/1

- ☐ Equal roles for all devices
- ☐ One central server
- ☒ Only wired connections
- ☐ Centralized control

What is the default port number for HTTP? 1/1

- ☐ 8080
- ☒ 80
- ☐ 20
- ☐ 21

Which device is used to connect two different networks? *

1/1

- ☐ Switch
- ☒ Router
- ☐ Repeater
- ☐ Hub

Which port number is used by the HTTPS protocol? *

1/1

- ☐ 80
- ☐ 8080
- ☐ 20
- ☒ 443

What is the default subnet mask for a Class C network? *

1/1

- ☐ 255.255.255.255
- ☒ 255.255.255.0
- ☐ 255.0.0.0
- ☐ 255.255.0.0

Which protocol provides error reporting and diagnostics in IP networks? * 1/1

- ☐ ARP
- ☐ HTTP
- ☒ Internet Control Message Protocol (ICMP)
- ☐ DHCP

Which of the following routing protocols is distance-vector based? 0/1

- ☒ BGP
- ☐ RIP
- ☐ OSPF
- ☐ EIGRP

Which layer of the OSI model is responsible for routing packets across networks? *1/1

- ☐ Transport Layer
- ☐ Data Link Layer
- ☐ Physical Layer
- ☒ Network Layer

Which of the following is the main difference between TCP and UDP?

1/1

- ☐ UDP provides error recovery while TCP does not
- ☒ UDP is faster but less reliable than TCP
- ☐ TCP is used for streaming services, while UDP is used for file transfer
- ☐ TCP is connectionless while UDP is connection-oriented

Which of the following is a Layer 4 protocol in the OSI model? *

0/1

- ☐ TCP
- ☐ FTP
- ☐ IP
- ☒ ARP

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