Chapter 5: Network Protocols Review Questions Book Title: Guide to Networking Essentials Printed By: John Hair (MN84574@umbc.edu) © 2020 Cengage Learning, Inc., Cengage

Chapter Review

Review Questions

- a. 32
- b. 48
- c. 64
- d. 128
 - e. 256
- 2. Which Application-layer protocol provides remote access to a Windows computer via a GUI?
 - a. Telnet



- c. SSH
- d. FTP
- 3. If a protocol is routable, at which TCP/IP layer does it operate?
 - a. Network access
 - b. Internetwork
 - c. Transport
 - d. Application
- 4. Which Application-layer protocol is used to monitor and manage network devices, and what Transport-layer protocol does it use?
 - a. SMTP, UDP

- b. SNMP, TCP
- c. SMTP, TCP



- 5. Which TCP/IP model layer takes a large chunk of data from the Application layer and breaks it into smaller segments?
 - a. Network access
 - b. Internetwork



- d. Application
- 6. Which of the following protocols resolves logical addresses to physical addresses?
 - a. DHCP
 - b. TCP
 - c. IP
 - d. DNS



7. Which of the following protocols provides connectionless service? (Choose all that apply.)



- c. TCP
- d. HTTP
- 8. If you want to design an Application-layer protocol that provides fast, efficient communication and doesn't work with large amounts of data, what Transport-layer protocol would you design it to use?
 - a. IP



- c. TCP
- d. HTTP
- 9. Which of the following is the term for identifying packets used by TCP to establish a connection?
 - a. Port number indicators
 - b. Multiwindow agreement
 - c. Three-way handshake
 - d. Sequencing establishment
- 10. What element of a DHCP server uses the client MAC address to ensure that the client is leased the same address each time it requests an IP address?
 - a. IP address scope
 - b. Address exclusion
 - c. Reservation
 - d. ARP mapping
- 11. Which of the following is the first packet sent when a computer wants to lease a new IP address?
 - a. DHCPAck
 - b. DHCPDiscover
 - c. DHCPRequest
 - d. DHCPOffer
- 12. Which of the following IPv6 features is an enhancement to IPv4? (Choose all that apply.)
 - a. Larger address space
 - b. Works at the Internetwork and Transport layers
 - Built-in security
 - d. Connectionless communication

13.	Which protocol can configure a computer's IP address and subnet mask
	automatically?

- a. TCP
- b. IP
- c. ARP
- d. DNS



14. What type of packets are transmitted between a DHCP client and server when a client is initially leasing an IP address?



- b. Multicast
- c. Unicast
- d. Anycast
- 15. Which of the following accurately describes the .edu in the FQDN www.yc.edu?
 - a. Fully qualified domain name



- c. Root domain
- d. Second-level domain
- 16. What's another name for a DNS client?
 - a. Alias
 - b. Reservation
 - c. DDNS



- 17. What type of resource record is an alias for another record?
 - a. MX

b. AAAA



d. PTR

- 18. When a Windows computer is configured to use DHCP but no DHCP server is available, what type of address is configured automatically for it?
 - a. PAT



- c. NAT
- d. Static
- 19. Where does a DNS server look when it can't resolve a query from its zone records or cache?



- b. Alternate server
- c. Top-level domain
- d. BIND
- 20. What does the Transport layer use to identify source and destination Application-layer protocols?
 - a. Checksum
 - b. TCP address



- d. Root hints
- 21. Which of the following Application-layer protocols typically uses the UDP Transport-layer protocol? (Choose all that apply.)
 - a. HTTP





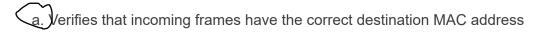
d. FTP

22. Which is the correct order of headers, from left to right, in a completed frame?

- a. Frame, TCP, IP
- b. UDP, frame, IP
- c. TCP, IP, frame



23. Which of the following is a task performed by the Network access layer? (Choose all that apply.)



- b. Defines and verifies IP addresses
- c. Transmits and receives bit signals
- d. Resolves MAC addresses by using IP addresses
- e. Delivers packets efficiently
- 24. What field of the IP header does the tracert program use to get the IP address of routers in the path?
 - a. Version



- c. Checksum
- d. Protocol
- 25. Which of the following is *not* found in a connectionless Transport-layer protocol? (Choose all that apply.)
 - a. Three-way handshake
 - b. Port numbers
 - c. Checksum
 - d. Acknowledgments

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