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/ QUIZ 3_CS301 (Section 1 + Section 2)_04-11-2022_11.00 PM to 11.15 PM

Started on	Friday, 4 November 2022, 11:00 AM
State	Finished
Completed on	Friday, 4 November 2022, 11:14 AM
Time taken	14 mins 52 secs
Grade	**12.00** out of 15.00 (**80**%)

Question **1**

Complete

Mark 1.00 out of 1.00

If the value in protocol field is 2 in IPV4 header, the protocol used is.......?

○ a. ICMP

○ b. TCP

○ c. UDP

◉ d. IGMP

Question **2**

Complete

Mark 1.00 out of 1.00

What should be the flag value to indicate the last fragment?

○ a. Time to live value

○ b. M = 1

○ c. None of these

◉ d. M = 0

Question **3**

Complete

Mark 1.00 out of 1.00

The traffic field of IPV6 is similar to which field in the IPV4 header?

○ a. Option field

○ b. Fragmentation field

◉ c. Type of service

○ d. Fast switching

Question **4**

Complete

Mark 1.00 out of 1.00

What is the network address of the subnet which contains a host with the IP address 192.168.12.198 with subnet mask 255.255.255.0?

○ a. 192.168.0.0

○ b. 192.168.12.12

◉ c. 192.168.12.0

○ d. 192.168.12.255

Question **5**

Complete

Mark 1.00 out of 1.00

Which fields helps to check rearrangement of the fragments in IPV4?

○ a. Flags

○ b. Checksum

◉ c. Fragment Offset

○ d. Protocol field value

Question **6**

Complete

Mark 1.00 out of 1.00

Consider three devices A, B, and C with IP addresses 100.10.5.2, 100.10.5.5 and 100.10.5.6 respectively. The subnet mask is set to 255.255.255.252 for all the three devices. Which one of the following is true?

○ a. Only A and B belong to same subnet

○ b. A, B, and C all belongs to three different subnets

○ c. A, B, and C all belongs to the same subnet

◉ d. only B and C belongs to same subnet

Question **7**

Complete

Mark 0.00 out of 1.00

Which of the following is incorrect about NAT?

○ a. Static Nat creates affixed translation of private addresses to public addresses.

○ b. NAT does not conserve IPV4 addresses.

○ c. NAT helps to reuse private IP addresses.

◉ d. Static NAT allows the user to configure one-to-one translation.

Question **8**

Complete

Mark 0.00 out of 1.00

Suppose the IP address of device **1** is 10.10.36.1 and device **2** is 10.10.12.1 and the subnet mask used is 255.255.0.0. Both the devices will be able to communicate with each other using

○ a. None of these

◉ b. Router

○ c. Switch

○ d. Hub

Question **9**

Complete

Mark 1.00 out of 1.00

Two popular routing tables are Distance Vector and Link State routing, which of the following are true?

1. count-to-infinity is a problem only is distance vector and not in link state routing.

2. In link state, the shortest path algorithm is run only at one node.

3. In distance vector, the shortest path algorithm is run only at one node.

4. Distance vector require lesser number of network message than link state.

○ a. 1, 2 and 4 only

○ b. 1, 3, and 4 only

○ c. 2 and 3 only

◉ d. 1 and 4 only

Question **10**

Complete

Mark 1.00 out of 1.00

In an IPV4 packet, the value of HLEN is 1010 in binary. How many bytes of options are being carried by this packet?

○ a. 12 bytes

◉ b. 20 bytes

○ c. 10 bytes

○ d. 32 bytes

Question **11**

Complete

Mark 1.00 out of 1.00

The following is a dump of a UDP header in hexadecimal format

0632000D001EE217

What is the total length of the datagram?

○ a. 22 bits

⦿ b. 22 bytes

○ c. 8 bytes

○ d. 20 bytes

Question **12**

Complete

Mark 0.00 out of 1.00

An organization is granted the block 130.34.12.64/26. Find the maximum number of host addresses that can be assigned for this network?

⦿ a. 32

○ b. 18

○ c. 256

○ d. None of these

Question **13**

Complete

Mark 1.00 out of 1.00

Which of these is not a type of error-reporting message?

○ a. Source quench

⦿ b. Router error

○ c. Time exceeded

○ d. Destination unreachable

Question **14**

Complete

Mark 1.00 out of 1.00

What is the type of the destination address of these Ethernet address 4A:30:10:21:10:1A

○ a. Broadcast

○ b. Not a valid address

○ c. Multicast

◉ d. Unicast

Question **15**

Complete

Mark 1.00 out of 1.00

Suppose the IP address of device **1** is 162.198.2.1 and device **2** is 162.198.3.2 and the subnet mask used is 255.255.255.0. Both the devices will be able to communicate with each other using switch

○ a. True

◉ b. False

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