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Unit 4 - Week 2

Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-21, 23:59 IST.

1) An IP packet arrives at a router with the first eight bits as 01001000. How many bytes are there in the OPTIONS field? **1 point**

○ a. 4
○ b. 8
○ c. 12
○ d. None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
c. 12

2) In an IP packet, the value of HLEN is 5, and the value of the TOTAL LENGTH field is 1000 (in decimal). The number of data bytes in the packet will be

[   ]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 980

1 point

3) An IP packet arrives at the final destination with the M flag set as 1. What can you say about the packet? **1 point**

☐ a. The packet has not been fragmented.
☐ b. The packet has been fragmented.
☐ c. The packet has been fragmented, and this is not the last fragment.
☐ d. The packet data was truncated on its way.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b. The packet has been fragmented.
c. The packet has been fragmented, and this is not the last fragment.

4) Which address class does the IP address 227.12.85.123 belong to? **1 point**

○ a. Class A
○ b. Class B
○ c. Class C
○ d. Class D

No, the answer is incorrect.
Score: 0
Accepted Answers:
d. Class D

5) What do the following IP address signify: 144.16.255.255 ? **1 point**

○ a. It is a unicast address on the class B network 144.16.0.0
○ b. It is a broadcast address on the class B network 144.16.0.0
○ c. The subnet mask is 0.0.255.255
○ d. None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
b. It is a broadcast address on the class B network 144.16.0.0

6) An IP packet with 2500 bytes of data (plus header) passes through an IP network with MTU = 500 bytes. How many additional bytes will be delivered **1 point** at the destination?

○ a. 64
○ b. 100
○ c. 150
○ d. 200

No, the answer is incorrect.
Score: 0
Accepted Answers:
b. 100

7) The maximum number of hosts that are possible in a class C network is _____

[   ]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 254

1 point

8) What is the purpose of the sequence number field in the TCP header? **1 point**

○ a. Used for reliable delivery of message.
○ b. Used to keep track of the number of connections.
○ c. Used to keep track of number of packets successfully delivered.
○ d. None of these.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a. Used for reliable delivery of message.

9) What is the subnet address if the destination IP address is 144.16.34.124 and the subnet mask is 255.255.240.0? **1 point**

○ a. 144.16.32.0
○ b. 144.16.34.0
○ c. 144.16.0.0
○ d. None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
a. 144.16.32.0

10) What is a TCP half-open connection in the context of connection establishment using 3-way handshake? **1 point**

○ a. The first transaction in the 3-way handshake does not complete.
○ b. The second transaction in the 3-way handshake does not complete.
○ c. The last transaction in the 3-way handshake does not complete.
○ d. None of these.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c. The last transaction in the 3-way handshake does not complete.