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Max Marks: 1

Correct Option

Max Marks: 1

Correct Option

Correct Answer

OVERALL ANALYSIS

0.1)

Solution Report

Correct Answers Wrong Answers Not Attempted Questions

When we received the three duplicate ACK in the TCP congestion control? It tells the strong possibility of congestion.

It tells the weak possibility of congestion.

Solution: (B)

Explanation:

Three duplicate ACK tells the weak possibility of congestion.

 $\label{lem:after three duplicate ACK the new sender window size will follow congestion avoidance.$

The new sender window size will follow the slow start mechanism.

None of these

0.2) Which protocol below uses TCP port 443 at layer 4?

HTTP

HTTPS Solution: (B)

> Explanation: Port 443 is the standard port for all secured HTTP traffic, meaning it's absolutely essential for most modern web activity.

TFTP

TELNET

Max Marks: 1

Consider the effect of using slow start on a line with a 10-msec round-trip time and no congestion. The receiver window is 24 KB and the maximum segment size is 2 KB. The initial sender window size (SWS) is 2KB. How long in msec does it take before the first full window can be sent?

Solution: (40)

Ans 40

Sol: Initial sender window size =2 KB

After first RTT SWS= 4KB After second RTT SWS= 8KB After third RTT SWS = 16KB After fourth RTT SWS = 24KB

So after the fourth RTT SWS reaches to 24 KB. Hence 40 msec is the answer.

Q.4) The ability to inject packets into the Internet with a false source address is known as

Man-in-the-middle attack

IP phishing

IP sniffing

IP spoofing

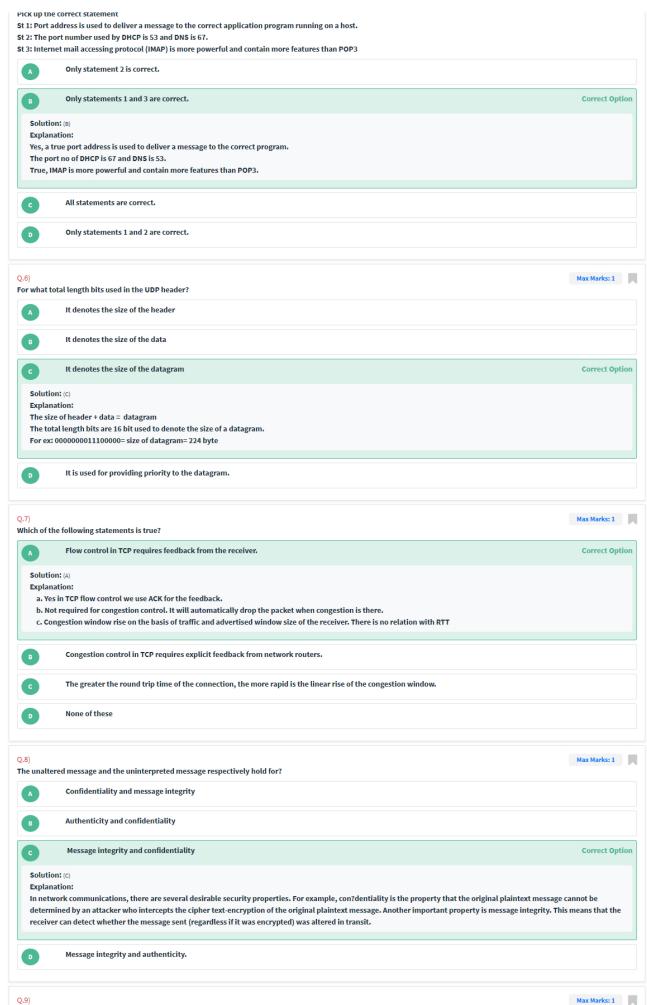
Correct Option

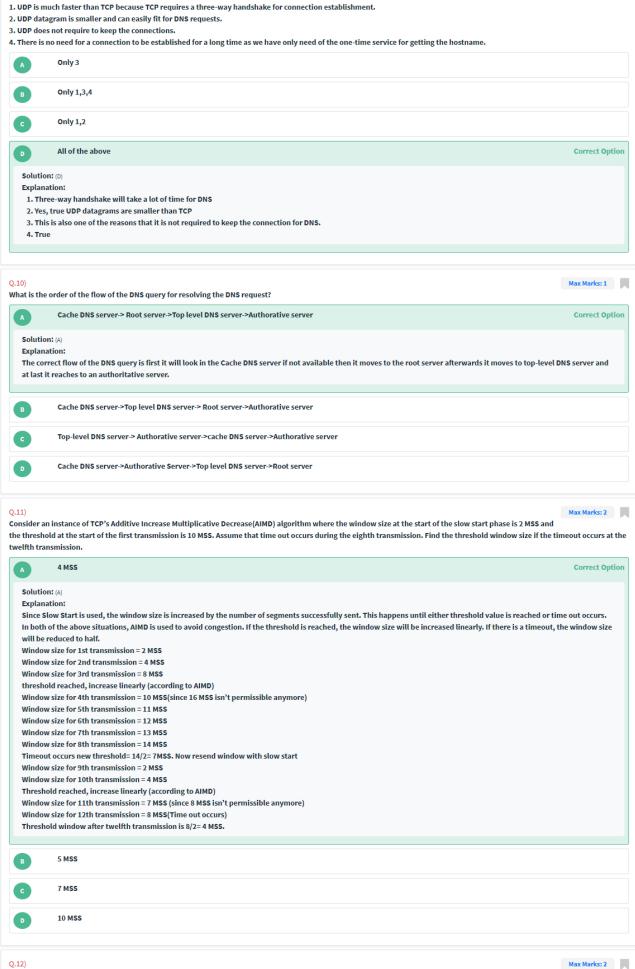
Solution: (D) Explanation:

IP address spoofing or IP spoofing is the creation of Internet Protocol packets with a false source IP address, for the purpose of impersonating another computing system.

Max Marks: 1

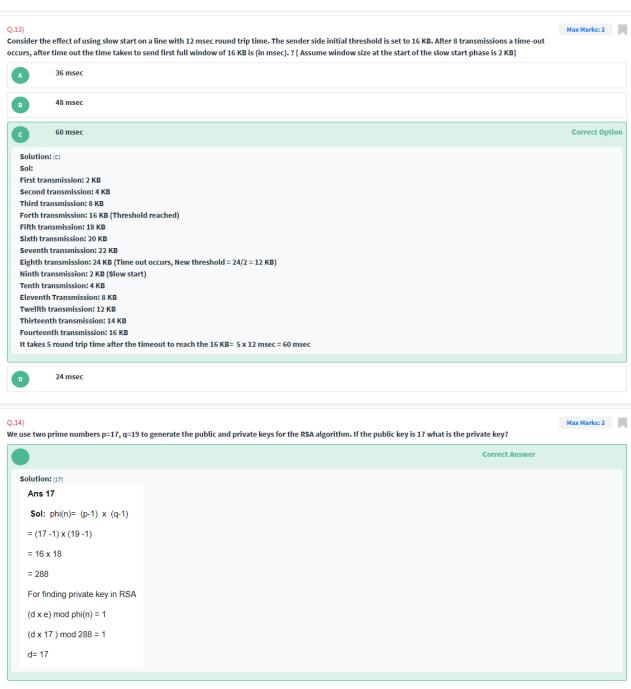
Max Marks: 1





If the TCP round-trip time, RTT, is currently 30 msec and the following acknowledgments come in after 26, 32, and 24 msec, respectively, what is the new RTT estimate using the Jacobson algorithm? Use α=0.9 [correct up to two places of decimal]







Solution: (A)

Explanation:

Authentication means something which is sent by the correct sender. If the sender wants to authenticate with the receiver. The sender must encrypt with its own private key so that the receiver gets to ensure that thing is generated by the sender only. Decryption will happen using the public key of the sender which is known to the receiver.

The sender encrypts with the public key of receiver and receiver decrypts with the private key of the sender.

Sender's encrypts with the public key of receiver and receiver decrypts with its own private key.

None of the above

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