Question 1
Passive packet sniffing involves data packets being manipulated while in transit, which may include injecting internet protocols to redirect the packets to unintended ports or changing the information the packet contains. 1 / 1 point
True
False
Correct
Active packet sniffing is a type of attack that involves data packets being manipulated while in transit. This can include injecting internet protocols to redirect the packets to unintended ports or changing the information the packet contains. Passive packet sniffing is a type of attack where data packets are read in transit.

Question 2
Fill in the blank: A security analyst can protect against malicious packet sniffing by _____ to encrypt data as it travels across a network. 1 / 1 point
using only websites with HTTP at the beginning of their domain addresses
using a network hub
using free public Wi-Fi
using a VPN

Correct
A security analyst can protect against malicious packet sniffing by using a VPN to encrypt data as it travels across a network. A VPN is a network security service that changes a public IP address and hides a virtual location to keep data private when using a public network.

Question 3
Which type of attack involves an attacker changing the source IP of a data packet to impersonate an authorized system and gain access to the network? 1 / 1 point
On-path attack
Replay attack
IP spoofing
Ping of death
Correct
IP spoofing involves an attacker changing the source IP of a data packet to impersonate an authorized system and gain access to the network.

Question 4
Which of the following statements accurately describes a smurf attack? 1 / 1 point
A DoS attack performed by an attacker repeatedly sending ICMP packets to a network server
A network attack performed when an attacker intercepts a data packet in transit and delays it or repeats it at another time
A network attack performed when an attacker sniffs an authorized user's IP address and floods it with packets
A DoS attack that is caused when a hacker pings a system by sending it an oversized ICMP packet that is bigger than the maximum size
Correct
A smurf attack is a network attack performed when an attacker sniffs an authorized user's IP address and floods it with packets. It is a combination of a DDoS attack and an IP spoofing attack.