1. Which of the following terms refers to the method that allows or restricts specific types of packets from crossing over the firewall?

A. Hacking
B. Packet filtering
C. Web caching
D. Spoofing

Answer: B

2. You work as a Network Administrator for NetTech Inc. The company wants to encrypt its e-mails. Which of the following will you use to accomplish this?

A. PGP
B. PPTP
C. IPSec
D. NTFS

Answer: **A**

3. Peter works as a Network Administrator for Net World Inc. The company wants to allow remote users to connect and access its private network through a dial-up connection via the Internet. All the data will be sent across a public network. For security reasons, the management wants the data sent through the Internet to be encrypted. The company plans to use a Layer 2 Tunneling Protocol (L2TP) connection.

Which communication protocol will Peter use to accomplish the task?

A. IP Security (IPSec)
B. Microsoft Point-to-Point Encryption (MPPE)
C. Pretty Good Privacy (PGP)
D. Data Encryption Standard (DES)

Answer: **A**

4. Which of the following protocols multicasts messages and information among all member devices in an IP multicast group?

A.   ARP
B.   ICMP
C.   TCP
D.   IGMP

Answer: D Internet Group Management Protocol

5. Which of the following is used to authenticate asymmetric keys?

A.   Digital signature
B.   MAC Address
C.   Demilitarized zone (DMZ)
D.   Password

Answer: **A**

6. IPsec VPN provides a high degree of data privacy by establishing trust points between communicating devices and data encryption.
Which of the following encryption methods does IPsec VPN use? Each correct answer represents a complete solution. Choose two.

A.   MD5
B.   LEAP
C.   AES
D.   3DES

Answer C,D

7. A user is sending a large number of protocol packets to a network in order to saturate its network in order to saturate its resources and to disrupt connections to prevent communications between services. Which type of attack is this?

A.   Denial-of-Service attack
B.   Vulnerability attack
C.   Social Engineering attack
D.   Impersonation attack

Answer: A

8. You want to implement a network topology that provides the best balance for regional topologies in terms of the number of virtual circuits, redundancy, and performance while establishing a WAN network. Which of the following network topologies will you use to accomplish the task?

A.   Bus topology
B.   Fully meshed topology
C.   Star topology
D.   Partially meshed topology

Answer: D example: admin, versus CORP versus PROD

9. Which of the following protocols is an alternative to certificate revocation lists (CRL) and allows the authenticity of a certificate to be immediately verified?

A.   RSTP
B.   SKIP
C.   OCSP
D.   HTTP

Answer: C The Online Certificate Status Protocol (**OCSP**) is an Internet protocol used for obtaining the revocation status of an X.509 digital certificate.

10. Which of the following does PEAP use to authenticate the user inside an encrypted tunnel? Each correct answer represents a complete solution. Choose two.

A.   GTC
B.   MS-CHAP v2
C.   AES
D.   RC4

Answer: A,B

Protected Extensible Authentication Protocol (PEAP) software supported by Cisco Aironet client software version 5.05 or later and Cisco Access Control Server (ACS) version 3.1 or later. PEAP is an 802.1X authentication type for wireless LANs (WLANs). PEAP provides strong security, user database extensibility, and support for one-time token authentication and password change or aging. PEAP is a component of the Cisco Wireless Security Suite.

PEAPv1/EAP-GTC was created by Cisco to provide interoperability with existing token card and directory based authentication systems via a protected channel. Even though Microsoft co-invented the PEAP standard, Microsoft never added support for PEAPv1 in general, which means PEAPv1/EAP-GTC has no native Windows OS support.

Android, Apple iOS, and Apple OS X all provide native support for PEAP/EAP-GTC.
LDAP (Lightweight Directory Access Protocol) only support EAP-GTC

PEAPv0/EAP-MSCHAPv2 is the most common form of PEAP in use, and what is usually referred to as PEAP. The inner authentication protocol is Microsoft's Challenge Handshake Authentication Protocol, meaning it allows authentication to databases that support the MS-CHAPv2 format, including Microsoft NT and Microsoft Active Directory.

15. Adam works as a Security Analyst for Umbrella Inc. CEO of the company ordered him to implement two-factor authentication for the employees to access their networks. He has told him that he would like to use some type of hardware device in tandem with a security or identifying pin number. Adam decides to implement smart cards but they are not cost effective. Which of the following types of hardware devices will Adam use to implement two-factor authentication?
A.   Biometric device
B.   One Time Password
C.   Proximity cards
D.   Security token

Answer: D