1.Which encryption technology is commonly used for securing emails?
a) PGP
b) SSL
c) HTTP
d) FTP

View answer
Answer: a) PGP

Explanation: Pretty Good Privacy (PGP) is a widely used encryption technology for securing emails by providing cryptographic privacy and authentication.

2.What does PGP stand for?
a) Pretty Great Privacy
b) Public Gateway Protocol
c) Pretty Good Privacy
d) Personal Gateway Protocol

View answer
Answer: c) Pretty Good Privacy

Explanation: PGP stands for Pretty Good Privacy, a data encryption and decryption program used for secure communication.

3.Which protocol ensures secure communication over the web by encrypting data transmitted between a web server and a browser?
a) TLS
b) FTP

c) HTTP
d) UDP

View answer
Answer: a) TLS

Explanation: Transport Layer Security (TLS) is a protocol that ensures secure communication over the web by encrypting data transmitted between a web server and a browser.

4.What is the primary purpose of a firewall?
a) To enhance internet speed
b) To filter and control network traffic
c) To provide antivirus protection
d) To secure physical access to servers

View answer
Answer: b) To filter and control network traffic

Explanation: A firewall is a network security device or software that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

5.Which type of firewall examines data packets at the application layer of the OSI model?
a) Packet-filtering firewall
b) Proxy firewall
c) Stateful inspection firewall
d) Next-generation firewall

View answer

Answer: b) Proxy firewall

Explanation: A proxy firewall examines data packets at the application layer of the OSI model and acts as an intermediary for client requests seeking resources from other servers.

6.Which protocol is commonly used for securing electronic transactions over the internet?
a) TLS
b) SSH
c) SET
d) IPsec

View answer
Answer: c) SET

Explanation: Secure Electronic Transaction (SET) is a protocol used for securing electronic transactions over the internet by providing authentication and encryption mechanisms.

7.Which protocol is used to secure email communication by encrypting and digitally signing messages?
a) SMTP
b) S/MIME
c) HTTP
d) POP3

View answer
Answer: b) S/MIME

Explanation: Secure/Multipurpose Internet Mail Extensions (S/MIME) is a protocol used to

secure email communication by encrypting and digitally signing messages.

8.What is the purpose of MIME in email communication?
a) To secure email attachments
b) To format email messages
c) To encrypt email headers
d) To authenticate email senders

View answer
Answer: b) To format email messages

Explanation: Multipurpose Internet Mail Extensions (MIME) is used in email communication to format email messages by allowing the inclusion of various types of media, such as images and audio files.

9.Which IP security protocol provides encryption and authentication for IP packets?
a) IPSec
b) SSL
c) TLS
d) PPTP

View answer
Answer: a) IPSec

Explanation: Internet Protocol Security (IPSec) is a protocol suite used for securing IP communications by providing encryption and authentication for IP packets.

10.Which security technology is used to prevent unauthorized access to a network or

system?
a) IDS
b) IPS
c) Firewall
d) VPN

View answer
Answer: c) Firewall

Explanation: Firewalls are security devices or software used to prevent unauthorized access to a network or system by controlling incoming and outgoing network traffic.

11.What is the purpose of an Intrusion Detection System (IDS)?
a) To encrypt network traffic
b) To prevent unauthorized access
c) To detect and alert on suspicious activities
d) To authenticate users

View answer
Answer: c) To detect and alert on suspicious activities

Explanation: An Intrusion Detection System (IDS) is designed to detect and alert on suspicious activities or potential security breaches within a network or system.

12.Which type of firewall operates at the network layer of the OSI model?
a) Packet-filtering firewall
b) Proxy firewall
c) Stateful inspection firewall

d) Next-generation firewall

View answer
Answer: a) Packet-filtering firewall

Explanation: Packet-filtering firewalls operate at the network layer of the OSI model and filter traffic based on predefined rules set by the administrator.

13.Which risk management strategy aims to reduce the impact of a potential risk?
a) Avoidance
b) Mitigation
c) Acceptance
d) Transference

View answer
Answer: b) Mitigation

Explanation: Risk mitigation aims to reduce the impact of potential risks by implementing preventive measures or contingency plans.

14.What does TLS stand for?
a) Transport Layer Security
b) Transmission Level Security
c) Tunneling Layer Security
d) Transaction Level Security

View answer
Answer: a) Transport Layer Security

Explanation: TLS stands for Transport Layer Security, which is a cryptographic protocol used to secure communication over a network.

15.Which security planning phase involves identifying and assessing potential risks?
a) Risk assessment
b) Risk analysis
c) Risk mitigation
d) Risk monitoring

View answer
Answer: b) Risk analysis

Explanation: Risk analysis involves identifying, assessing, and prioritizing potential risks to an organization’s assets or operations.

16.Which component of a firewall maintains information about the state of active connections?
a) Packet filter
b) Proxy server
c) Stateful inspection engine
d) Application layer gateway

View answer
Answer: c) Stateful inspection engine

Explanation: The stateful inspection engine in a firewall maintains information about the state of active connections, allowing it to make context-aware decisions about allowing or blocking traffic.

17.Which security technology encrypts data transmitted between a web browser and a server?
a) SSL
b) FTP
c) HTTP
d) UDP

View answer
Answer: a) SSL

Explanation: Secure Sockets Layer (SSL) is a cryptographic protocol that encrypts data transmitted between a web browser and a server, ensuring secure communication over the internet.

18.Which risk management strategy involves accepting potential risks without taking any action?
a) Avoidance
b) Mitigation
c) Acceptance
d) Transference

View answer
Answer: c) Acceptance

Explanation: Risk acceptance involves acknowledging potential risks without taking any action to mitigate or transfer them.

19.Which firewall type inspects and filters network traffic based on the application data?

a) Packet-filtering firewall
b) Proxy firewall
c) Stateful inspection firewall
d) Next-generation firewall

View answer
Answer: d) Next-generation firewall

Explanation: Next-generation firewalls inspect and filter network traffic based on application data, providing advanced security features beyond traditional packet-filtering and stateful inspection.

20.Which security technology is commonly used for establishing a secure connection to a remote network over the internet?
a) VPN
b) IDS
c) IPS
d) WAF

View answer
Answer: a) VPN

Explanation: VPN (Virtual Private Network) is commonly used to establish a secure connection to a remote network over the internet by encrypting data transmission, ensuring privacy and confidentiality.

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