



✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
91.66%

Security: Web Security

LATEST SUBMISSION GRADE

91.66%

1. Which of the following is false about the two keys used in public key encryption?

1 / 1 point

- ☐ The public key is openly revealed while the private key must be kept secret
- ☐ The public key alone is used for encryption and the private key alone is used for decryption
- ☐ One key is public and the other is private
- ☒ If you have the public key it is easy to compute the private key

✓ Correct

2. When you are using secure http and sending data between your computer and your bank's computer, where is the data encrypted and decrypted?

1 / 1 point

- ☒ Encrypted in your computer and decrypted in the bank's computer
- ☐ Encrypted in your bank's computer before they store the data in a database
- ☐ Encrypted in your network card and decrypted by the bank's Internet Service Provider (ISP)
- ☐ Encrypted and decrypted each time your message passes through a router

✓ Correct

3. In regards to security, what do we assume about the Internet?

1 / 1 point

- ☐ No one should ever send sensitive information like Credit Card numbers over the Internet
- ☐ That the entire Internet is completely secure other than WiFi connections
- ☒ That neither the routers nor the links between the routers are secure
- ☐ That no one can view Internet traffic without a subpoena

✓ Correct

4. This week we've updated our model of how we communicate information via the internet to add in a fifth mini-layer to the structure in order to protect the confidentiality of transmissions. What is the new list of layers and in what order do we list them?

1 / 1 point

- ☒ * Application
 - * Secure Sockets
 - * TCP
 - * IP
 - * Link
- ☐ * ZIP+Secure
 - * Application
 - * TCP
 - * IP

- * Link
- ☐ * Application
- * TCP
- * IP
- * Packet Encryption
- * Link
- ☐ * Application
- * TCP
- * IP
- * Link
- * Dark Fiber

✓ Correct

5. What is packet sniffing?

1 / 1 point

- ☐ When we use detection equipment to see if link speeds are being exceeded
- ☒ Computers watching packets being transmitted across the network in hopes of finding important or valuable data
- ☐ When a receiving system anticipates a packet before it is received and pre-sends the acknowledgement to save time
- ☐ When a router looks at the first part of packet to do the routing lookup before the entire packet is received

✓ Correct

6. Which of the following is FALSE about using secure sockets (i.e. https) to send sensitive information like a credit card across the Internet?

1 / 1 point

- ☐ It requires large amounts of computing power to decrypt your data
- ☐ When using an unsecured WiFi, your data is still protected because of https
- ☒ It is impossible to decrypt your data
- ☐ It requires complex math to decrypt your data

✓ Correct

7. Which of the following is NOT a major threat to your data when using secure sockets?

1 / 1 point

- ☐ There may be a virus on your computer monitoring your keystrokes
- ☒ Someone may see your public key
- ☐ You can be unknowingly redirected to a server different from the one you would like

✓ Correct

8. Which of the following is not an equivalent name to 'digital certificate'?

0 / 1 point

- ☐ Private key certificate
- ☐ Identity certificate
- ☒ Public key certificate
- ☐ Digital certificate

! Incorrect

9. What is a digital certificate?

1 / 1 point

- ☐ A real-life document used to certify the security of your computer
- ☐ An electronic document used to give both public and private keys an identity
- ☐ An electronic document used to give a private key an identity
- ☒ An electronic document used to give a public key an identity

✓ Correct

10. What is a certificate authority?

1 / 1 point

- ☐ An entity that certifies that you have no virus on your computer
- ☐ An entity that certifies the mathematical relationship between the public and private keys of a system
- ☐ An entity that tries to ensure secure transactions by attempting to crack encrypted messages online
- ☒ An entity that certifies the ownership of a public key by the named subject of the certificate

✓ Correct

11. Which of the following is NOT an indicator of the effectiveness of Verisign as a certificate authority?

1 / 1 point

- ☐ Verisign is used by major manufacturers like Apple and Microsoft
- ☐ Verisign has a high success rate for maintaining secure transactions
- ☒ Verisign publishes its private keys on a little-known web site only available to key owners
- ☐ Verisign goes to great lengths to store their private keys securely

✓ Correct

12. How does your computer typically know the public key of a certificate authority during secure communications?

1 / 1 point

- ☒ The public key is stored in the operating system by the manufacturer before you buy or install it
- ☐ The computer doesn't use a public key
- ☐ The public key is emailed to the computer the first time you switch it on
- ☐ The public key has to be downloaded when you are setting up the computer's web browser

✓ Correct