

# Quiz: Payment Encryption

**Due** Mar 1 at 3:30pm**Points** 6**Questions** 6**Time Limit** 10 Minutes

## Instructions

This is an individual quiz with a 10 minutes limit.

## Attempt History

	Attempt	Time	Score
<b>LATEST</b>	<a href="#">Attempt 1</a>	3 minutes	4 out of 6

Score for this quiz: **4** out of 6

Submitted Feb 9 at 11:13pm

This attempt took 3 minutes.

### Question 1

**1 / 1 pts**

What does SSL mean?

- ☐ Strong Secure Layout
- ☒ Secure Sockets Layer
- ☐ Secure Sourcing Layer
- ☐ Strong Secure Layer

**Correct!**

### Question 2

**1 / 1 pts**

Who are certificate authorities?

**Correct!**☐

They are authorities that certify that the connection between you and your bank is secure.

☐

They are certificates released by authoritarian regimes.

☒

They are trusted entities that issue digital certificates verifying the website identity.

☐

They are banks that provide certificates to their clients

**Question 3****0 / 1 pts**

Does SSL use asymmetric or symmetric key encryption to establish a secure communication between two parties?

**You Answered**☒

Symmetric key encryption

**Correct Answer**☐

Both

☐

None

☐

Asymmetric key encryption

**Question 4****1 / 1 pts**

What information is included in a SSL certificate?

**Correct!**☒

All of the answers are correct.

- ☐ Certificate of Authority Signature.
- ☐ Company's IP address.
- ☐ Company's public key.

**Question 5****0 / 1 pts**

How does my browser verify that the SSL certificate received from a website is valid?

- ☐ It checks that the CA website is functioning correctly.
- ☐ It trusts the Certificate Authority.

**You Answered**

It checks that the CA public key matches the SSL CA certificate, which is pre-loaded on the browser.

**Correct Answer**

It checks that the SSL CA signature matches the public key of the CA, which is pre-loaded on the browser.

**Question 6****1 / 1 pts**

Once the browser verifies the identity of the website, how does it establish a secure communication channel?

**Correct!**

It uses the browser's private key to generate a signature that is then shared with the website.



SSL is not a secure communication system.



It uses the public key of the website contained in the SSL certificate to encrypt a common symmetric key that is then sent to the website.



It uses the public key of the browser contained in the SSL certificate to encrypt an asymmetric key that is then sent to the website.

**Quiz Score: 4 out of 6**