

MEETING TEN ASSIGNMENT

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Abstract

This summary covers the fundamental concepts of steganography, which is defined as the art and science of writing hidden messages in such a way that their very existence is concealed from anyone other than the intended recipient. This method provides security through obscurity and is distinctly different from cryptography, which only obscures the *meaning* of a message but does not hide the message itself. The primary advantage of steganography is that its messages do not attract attention or arouse suspicion

Jawaban:

1. What is a Steganography?

Steganography is the art and science of writing hidden messages in such a way that no one, apart from the sender and the intended recipient, even realizes there is a hidden message.

2. Why is Steganography better than Cryptography?

The advantage of steganography over cryptography alone is that the messages do not attract attention to themselves, to the messengers, or to the recipients. An unhidden coded message, no matter how unbreakable it is, will arouse suspicion.

3. What is a Coverttext?

Generally, a steganographic message will appear to be something else, like a picture, an article, a shopping list, or some other message. This apparent message is the coverttext. It is also defined as a text or message that is displayed to a user.

4. What is Encryption?

Encryption is a process of converting plain text into cipher text.

5. What is a Steganalyst?

Someone who is an expert in steganography is called a steganalyst.

6. According to the slides, give some examples of the usage of Steganography!

Certainly! Here are some examples mentioned in the slides:

- **A warning to Greece:** Demaratus sent a warning about a forthcoming attack to Greece by writing it on a wooden panel and covering it in wax.
- **Message on a slave's head:** Histiaeus shaved his most trusted slave's head and tattooed a message on it. The message was hidden after his hair had grown.
- **Invisible ink:** Writing a secret message using invisible ink.
- **Microdots or microfilms:** A picture of a message can be hidden in microdots or microfilms.

7. The method used by Histiaeus has some weaknesses, explain them.

The method used by Histiaeus has these obvious drawbacks:

- **Time:** It is impossible to send a message as quickly as the slave can travel because it takes months to grow hair.
- **Single-use:** A slave can only be used once for this purpose.

8. According to the slides, what is the example of the use of Steganography in a computer era?

In the computer era, steganography can be done by inserting a secret document into another document. Any document can be used as a medium, for example, a text file, a picture file, or a multimedia file such as an mp3 or video file.