

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Module 1 Quiz (16-12-2020)

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#### Subjective Questions

2M

List and define categories of security services \*

Authentication:

The assurance that the communicating entity is the one that it claims to be.

Data Confidentiality:

Protects data from unauthorized disclosure.

Access Control:

The prevention of unauthorized use of a resource

Data Integrity:

The assurance that data received are exactly as sent by an authorized entity

Non-repudiation:

Protects against denial by one of the entities involved in a communication of having participated in all or part of the communication.

Explain at least four steganography techniques. \*

Spatial Domain Methods:

in this method the secret data is embedded directly in the intensity of pixels.

Spread Spectrum Technique :

The concept of spread spectrum is used in this technique. In this method the secret data is spread over a wide frequency bandwidth

Statistical Technique :

In the technique message is embedded by changing several properties of the cover. It involves the splitting of cover into blocks and then embedding one message bit in each block. The cover block is modified only when the size of message bit is one otherwise no modification is required.

Distortion Techniques:

In this technique the secret message is stored by distorting the signal. A sequence of modification is applied to the cover by the encoder. The decoder measures the differences between the original cover and the distorted cover to detect the sequence of modifications and consequently recover the secret message

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