

1. Describe how Information Assurance (IA) is provided via its 5 pillars.

A)

B)

C)

D)

E)

2. Choose 3 pillars of IA and describe how they could each be violated by performing an ARP spoofing attack on your local network.

3. What is more important? Justify your answer.

- For ebay.com to offer online auctions for everyone in real time (Service)
- OR
- For ebay.com to keep customer financial information safe (Security)

4. A) Using the Risk Equations, describe how likely you are to contract a virus that steals your bank account information on a laptop which has not received security updates in 6 months.

B) How does the Risk Equation change if, instead of a virus, you are assessing your risk of contracting some spyware that sends updates of your location to advertisers? Is it worth the risk?

5. Who is the enemy of Alice and Bob?

What pillar(s) of IA might this actor attempt to violate?

6. A) What is unconditional security?

B) Which known system provides unconditional security? How practical is it?

C) What type of security do we realistically settle for? How long should it take to crack one of these systems?

7. How are cryptanalysis and cryptography different?

8. A) Decrypt the rest of this phrase using the Caesar Shift Cipher. (On the resources page)

Cipher Text (CT) - RKKRTB RK URNE

Plain Text (PT) - _____K _____

B) What was the *key* used for this cipher?