

Assignment 7—Chapters 19-21

CptS 425/580—Network Security

Assigned: tbd

Due: tbd

– DRAFT –

Explain and/or justify all of your answers. Short answers are sufficient, but one-word (e.g., ‘yes’, ‘no’) answers will not receive full credit. State any assumptions that you make. Turn in a printout of your assignment and also email an electronic copy to the instructor.

Chapter 19

15 Pts. List and define the three major types of malicious logic.

10 Pts. Present an argument for the statement that Trojan horses are worse than viruses.

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25 Pts. Compare and contrast Thompson’s compiler and the Soviet gas pipeline explosion incident from a malware perspective. (Give at least two similarities and two differences).

Chapter 20

15 Pts. What are the three classes of attackers that must be considered during penetration testing?

15 Pts. Can penetration testing prove that a system is secure? Why?

Chapter 21

15 Pts. Why should secure systems have auditing systems integrated into their designs and implementations?

15 Pts. Why would an attacker want access to unsanitized logs?