CS 5352/6352 Computer Security
Homework 3
(30 pts)

1. What is malware? Mention the different usages of malware.

2. Describe the differences between viruses, trojan horses and worms.

3. Describe the differences between botnets, trapdoor/backdoor and rootkits.

4. Describe the differences between spyware and adware.

5. How can you detect and remove rootkits? Why is it hard to do so?

6. What is ransomware and who gets hit by it? Why there is such a boom in ransomware?

7. Describe the steps for ransomware incident handling.

8. How can you recover files once you are attacked by ransomware? Should businesses pay the ransom or take preventive cybersecurity measures?

9. What are the symptoms of a malware infection?

10. How many ways the virus can attach to a program? Describe the parts of a virus code.

11. How can you classify the viruses based on target and concealment strategy?

12. Describe various ways the viruses can be detected by virus scanners.