Under the patronage of His Excellency the Minister of Education

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and the directives of

Dr. Hala Abdel Salam

Head of the Central Department of General Education

Evaluations and Assignments

Information and Communication Technology for the Second Preparatory Grade

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Second Preparatory Grade – Weekly Evaluation and Homework – Week (4)

Weekly Evaluation

First Test

Put (√) in front of the correct statement or (x) in front of the incorrect statement

1. Ransomware encrypts files and demands a ransom to restore them. ( )
2. Detecting and removing malware from a computer is called identity theft. ( )

Answer the following questions:

1. Discuss the danger of Ransomware programs to the files on a computer.
2. Explain what is meant by "identity theft".

Second Test

Put (√) in front of the correct statement or (x) in front of the incorrect statement

1. Disabling a website or internet service by sending huge amounts of requests is called Baiting. ( )
2. Spear phishing targets the personal information of specific individuals. ( )

Answer the following questions:

1. Explain what is meant by targeted phishing (Spear Phishing).
2. Explain the difference between the concept of denial of service (DoS/DDoS) and the baiting technique in cybersecurity.

Third Test

Put (√) in front of the correct statement or (x) in front of the incorrect statement

1. Botnets used in DDoS attacks are compromised devices controlled by the attacker to send huge amounts of fake requests to the targeted server. ( )
2. Ransomware spreads only via email and not through malicious websites. ( )

Answer the following questions:

1. Define botnets, and explain how they are used in DDoS attacks.
2. State the media and methods of spreading different ransomware programs, explaining the extent of the danger of each.

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Class Evaluation

Discuss with your colleagues the negative impacts that Distributed Denial of Service (DDoS) attacks can have on companies and users, and record them in a file.

Homework

Choose the appropriate answer to complete each of the following statements:

1.The term "security updates" means.....

a- Changing the appearance of the operating system.

b- Adding new features to the software.

c- Fixing security vulnerabilities in software and hardware.

d- Speeding up application performance.

2. The bots used in DDoS attacks are called .....

a- Advanced artificial intelligence programs.

b- Supercomputers.

c- A group of secure servers.

d- A network of compromised devices controlled remotely.

Answer the following questions:

1. **Explain the concept of security updates, and state the main purpose of installing them on devices and applications.**
2. **What are the botnets used in DDoS attacks, and how are compromised devices exploited in them?**

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