STD: XI   **Answerkey**   TIME: 1.30 Hour

SUBJECT: COMPUTER SCIENCE   TOTAL MARKS: 40

Section – A (One Marks)

I. Answer the following questions   10X1=10

1. Unsolicited commericial email is known as _____

(a) Spam   (b) Malware   (c) Virus   (d) Spyware

2. Firewall is type of _____.

(a) Virus   (b) Sucurity threat (c) Worm   (d) none of the above

3. Both email attachments and downloaded files can spread malware.

(a) True   (b) False

4. What should your response be if you receive an email stating that you have won a lottery or received some inheri tance from an unknown person?

(a) Send them email asking for further procedure

(b) Ignore it

(c) Mark it as spam and block it

5. What is a firewall?

(a) A wall that is reinforced and cannot catch on fire.

(b) A program that protects against viruses.

(c) A filter for an Internet connection that monitors outgoing and incoming activity.

6. A strong password should contain:

(a) Both uppercase and lowercase letters.

(b) A word that is easy to remember, such as the name of a pet.

(c) At least 8 characters, and a combi nation of letters, numbers, and characters.

7. Which type of program can send out information about your web browsing activities or other personal details?

(a) Cookies   (b) Spam   (c) Spyware   (d) Trojan

8. Firewalls are to protect against

(a) Virus Attacks   (b) Fire Attacks

(c) Data Driven Attacks   (d) Unauthorized Attacks

9. Like a virus, it is a self-replicating program it also propagates through computer network

(a) Phishing scam   (b) Worm   (c) Spyware   (d) Cracker

10. Which of the following is a class of computer threat?

(a) Phishing   (b) Soliciting   (c) DoS Attacks   (d) Stalking

II. Answer the following questions   5x2=10

11. What is a virus? What are the two similar programs like virus?

   Computer viruses are programs that cause damage to data and files on a system.

   Two similar programs like virus are,

1. Worms
2. Trojan horses

12. What is anti-virus software?

   Anti-virus software is designed to detect and block attacks from malware.

   This software when loaded, resodes in memory and checks every operation if it is malicious or not.

   Ex: K7TotalSecurity

13. What is threat? How can it affect your computer?

   A threat is a potential violation of security. When a threat is actually executed, it becomes attack.

14. Define: Worm and Trojan horse.

   A worm is a self-replicating program, which eats up the entire disk space or memory.

   A trojan horse is a program that appears harmless (such as a text editor or a utility program) but actually performs malicious functions such as deleting or damaging files.

15. What is Eavesdropping? What security measures can you take up to prevent it?

   Unauthorised monitoring of other people's communications is called Eavesdroping.

   Security measures can you take up Eavesdropping:
   ✓ Install Protection software
   ✓ Install firewall
   ✓ Avoid public network

Section – C (Three Marks)

III. Answer the following questions   4x3=12

16. Explain:
   a) **Spyware**
   b) **Adware**
   c) **Malware**

   Spyware is software which is installed on your computer to spy on your activities and report this data to people willing to pay for it.

   Adware are the programs that deliver unwanted ads to your computer.

   Malware is a general term used to refer to viruses, worms, spyware, adware etc.

17. What are different types of threats to computer security?
   ✓ Viruses: Worms,   Trojans
   ✓ Spyware
   ✓ Adware
   ✓ Spamming
   ✓ PC Intrusion: Denial of Service,   Sweeping,   Password Guessing
   ✓ Phisning

18. What do you understand by PC intrusion?

Personal computers connected to the internet are a potential target for hackers.

Computers are under constant attak from cyber activities like,

- ✓ Sweeper Attack
- ✓ Denial of Services
- ✓ Password Guessing

19. What is meant by phishing and spamming?

Phishing is the criminally fraudulent process of attempting to acquire sensitive information pertaining to a user.

Spamming refers to the sending of bulk-mail by an identified or unidentified source.

Section – D (Four Marks)

IV. Answer the following questions   2x4=8

20. What measures should you take to keep data secure?
- ✓ Making regular backups of files (backup copies should be stored in fireproof safes or in another building.
- ✓ Protecting against viruses by running anti-virus software.
- ✓ Using a system of strong passwords so that access to data is restricted.
- ✓ Safe storage of important files stored on removable disks, e.g, locked away in a safe location.

21.

a) Why spamming it become a big Internet issue?
- ✓ Spam reduces productivity
- ✓ Spam eats up your time
- ✓ Spam can lead to worse things

b) What is the significance of a firewall in a computer's security scheme?
A firewall is a network security system, either hardware or sofware based, that controls incoming and outgoing network traffic based on a set of rules.

c) How to keep protected your computer?
- ✓ One should use updated software
- ✓ Be cautious while handling mails and surfing Internet
- ✓ Scanning computer regularly etc.

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