

Class – 7

Chapter – 3

Computer Virus

A. Tick (✓) the Correct Option

1. The full form of VIRUS is **(b) Vital**
 2. Which virus is named after the wooden horse used by the Greek Army? **(c) Trojan Horse**
 3. The first PC virus was released in **(b) 1986**
 4. The Program File Virus infects the **(a) Executable** files.
 5. **(c) Farooq Alvi Brothers** released the first PC virus.
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B. Fill in the Blanks

1. Computer virus results in the loss of **Speed** and **Destruction** of data.
 2. A multipartite virus is a hybrid of a **Boot Sector** and **Program File** virus.
 3. **Spyware** is a type of malicious software that enters a system and monitors the user.
 4. The **Macro** virus is created using applications such as Word and Excel.
 5. **Antivirus** is designed to identify, prevent and remove virus from a computer.
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C. Write T for True and F for False

1. Antivirus is a hardware device to protect computer from viruses. **False**
 2. Virus programs do not cause harm to data or other programs. **False**
 3. Trojan Horses are self-replicating. **False**
 4. Spyware is a type of virus that pretends to be an antivirus. **False**
 5. Boot Sector Virus infects the boot sector of a hard drive. **True**
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D. Answer the Following

1. What is a computer virus? Write any three possible symptoms of virus in a computer.

Answer:

A **computer virus** is a malicious program that enters a computer without the user's knowledge and disrupts its normal functioning. It can damage files, steal information, and spread to other computers.

Any three symptoms are:

- The computer becomes very slow.
 - Unexpected error messages appear.
 - The computer shuts down or restarts frequently.
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2. Define Boot Sector Virus. How is it different from a Program File Virus?

Answer:

A **Boot Sector Virus** infects the **boot sector (Master Boot Record)** of a hard disk and becomes active when the computer starts.

A **Program File Virus** infects **executable files** such as **.exe, .com, .dll** and becomes active when these files are opened.

Difference:

Boot Sector Virus	Program File Virus
Infects the boot sector of a hard disk.	Infects executable program files.
Activates during computer startup.	Activates when an infected program is executed.

3. Write any three steps required to protect your computer from a virus attack.

Answer:

1. Install and regularly update antivirus software.
2. Scan pen drives and downloaded files before opening them.
3. Do not open unknown email attachments or download pirated software.

4. What is an antivirus software? Why is it important to have an antivirus software in your computer?

Answer:

Antivirus software is a program designed to identify, prevent and remove computer viruses and other malware.

Importance:

- Protects the computer from viruses and malware.
- Scans files and removes infected files.
- Prevents data loss and keeps the computer running safely.

5. Write short notes on the following.

(a) Multipartite Virus

A **Multipartite Virus** is a combination of a **Boot Sector Virus** and a **Program File Virus**. It infects both the boot sector and executable files, making it difficult to remove.

(b) Spyware

Spyware is malicious software that secretly monitors a user's activities without permission. It can collect passwords, browsing history, and personal information and send it to others.

(c) Trojan Horse

A **Trojan Horse** is a harmful program that appears to be useful software. Once installed, it can steal information or damage the computer. Unlike viruses and worms, it **does not replicate itself**.

