

Grade: X

Computer Security

(Chapter – 3)

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Computer Security


Computer Security

The protection given to the computer for the hardware, software, data and information from being lost or damaged due to accidental or intentional harm is known as **computer security**.

It is a complex problem which includes **policies, tools** and **techniques** designed to protect a computer and its resources.

The ways of computer security are:

- Hardware security**
- Software security**



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Hardware Security:

The protection of all hardware components used in computer system is known as **hardware security**.

Hardware Security Measures:

- Regular Maintenance
- Insurance
- Dust free environment
- Protection from fire
- Protecting from theft
- Power Protection Devices (UPS, Volt Guard, Spike Guard)
- Avoiding unrelated persons in the computer rooms



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Data & Software Security:


The protection of data and programs used in computer system is known as **software security**. In other words, software security is the means by ensuring that the data and software are kept safe from **corruption** and **loss**.

Software Security Measures:

- Password Protection
- Backup System
- Avoid pirated software
- Use antivirus software
- Use anti-spyware software
- Use scandisk, chkdsk and defragmentation tool



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Common Terms:

Backup
Backup is the system of copying data and programs into another location or creating duplicate copy of it's in a secured place. Backups are essential to computer security system to save the important data and programs from the **accidental** or **intentional** harm.

Password
Password is a secret word or sequence of characters that gives a user access to a particular program or computer system. A password helps to protect the files and programs from being used by an unauthorized person. To protect the system from **unauthorized access** password should be used in the computer system.



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Common Terms:

CHKDSK (Check Disk)
CHKDSK is an important utility program that helps to keep a disk in good working condition. It checks files, folders, bad sectors, lost clusters, lost chains and any errors of the specific disk and it can fix them if it is possible.

UPS
Uninterruptible Power Supply (UPS) is a battery supported power protection device controls the electric voltage and supplies clean and continuous power to the computer system even during **power failures**.



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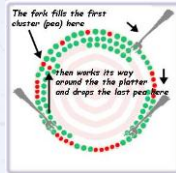
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Common Terms:

Fragmentation & Defragmentation

The spreading of the parts of the same disk file over different locations is called **fragmentation**. It makes slow disk access and breakdown the overall performance of the disk operation.

Defragmentation is the process of rearranging the fragmented files in the continuous spaces on the disk. When the fragmented files are defragmented, the files and programs are loaded faster than previous.



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Question and Answer Session