knowledgeplus

Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time.

Our Staff will be continuously, **sending notes and exercises on a weekly basis** through **what's app and emails**. Students are requested to **copy the notes and do the exercises** on their copybooks.

The answers to the questions below will be made available on our website on **knowledgeplus.mu/support.php**

We thank you for your trust and are convinced that, together, we will overcome these troubled times

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Fundamentals of Software package – Week 5

Computer Virus

Computer Virus

A Computer virus is a program or piece of code that is loaded onto your computer without your knowledge and runs against your wishes. Viruses can also replicate themselves. All computer viruses are man-made. A simple virus that can make a copy of itself over and over again is relatively easy to produce. Even such a simple virus is dangerous because it will quickly use all available memory and bring the system to a halt. An even more dangerous type of virus is one capable of transmitting itself across networks and bypassing security systems.

What is a malware?

"Malware" is short for malicious software and used as a single term to refer to virus, spyware, worm etc. Malware is designed to cause damage to stand alone computer or a network pc. So, wherever a malware term is used it means a program which is designed to damaged your computer it may be virus, worm or Trojan.

What is worm?

Worms are malicious programs that make copies of themselves again and again on the local drive, network shares, etc. The only purpose of the worm is to reproduce itself again and again. It doesn't harm any data/files on the computer. Unlike a virus, it does not need to attach itself to an existing program. Worms spread by exploiting vulnerabilities in operating systems.

Definition of virus

Virus is a program written to enter to your computer and damage /alter your files/data. A virus might corrupt or delete data on your computer. Viruses can also replicate themselves. A computer virus is more dangerous than a computer worm as it makes changes to your files/data.

Viruses can enter to your computer as an attachment of images, images, greeting, or audio/video files. Viruses also enters through downloads on the internet. They can be hidden in a free/trial software or other files that you have downloaded.

So, before you download anything from the internet be sure about it first. Almost all viruses are attached to an executable file, which means the virus may exist on your computer but it actually cannot infect your computer unless you can run or open the malicious program.

You can get a virus by:

- Inserting an infected pendrive into your computer – the virus can automatically copy itself from the infected disk into your computer.
- Downloading infected files from the Internet
- Downloading a software from an unreliable source.
- Opening an email attachment that was already infected with a virus.

Consequences of a virus

- A Virus has the potential to corrupt or even deletes files on your computer.
- The computer can slow down
- Viruses may even alter or destroy information on a computer.
- Some viruses can cause a computer to stop functioning normally.
- A virus can damage the boot sector and this can create problems when the computer is booting up.
- Viruses can reduce memory or disk space.
- Some viruses can also record keystrokes. Attackers can use these viruses to obtain sensitive information such as passwords and credit card numbers.

Theory Questions

1. **Briefly describe one application for each of the devices listed below.**

Device	Use
Scanner	
Laser Printer	
Pendrive	
Barcode Reader	
Speaker	

2. **Complete the following sentences using the output devices listed below.**

Graph Plotter   Laser Printer   Dot Matrix Printer

   i.   Garage using multi-part stationary with carbon copies would need a ………………..
   ii.   An architect's office producing house plan using A0 size paper would use a ………………
   iii. A student printing out coursework needing high quality printout would use a ……….........

3. **A list of 5 items is provided below.**

Pen drive	Magnetic stripe reader	Hard disk	Laser Printer	RAM	Dot –matrix printer

   a) Which storage device is usually used to store the operating system and other programs?
   b) Identify the device which is used to make payment in supermarkets.
   c) Identify the internal memory.
   d) Which storage device will you use to save your assignment which was done at school and bring it home?
   e) Identify two output devices not mentioned in the list above.

4. **A high school teacher usually communicates with his students using e-mails.**
   a) What is an e-mail
   b) Give 2 disadvantage of email and 2 advantage of email.
   c) State another method that the teacher can use to communicate with his students.

5. **Describe the following features:**
   a) Paragraph Spacing
   b) Shape
   c) Text box
   d) WordArt
   e) Text Wrapping
   f) Image Cropping.