

### Textual exercises

#### A) Choose the correct answer.

- 1) .....gets activated every Friday which occurs on the 13<sup>th</sup> of a month.  
a) Trojan Horse      b) File Infector      c) **Jerusalem Virus**
- 2) .....virus adds virus code to the regular programming code in a program file.  
a) **File infector**      b) Boot Sector      c) worm
- 3) .....is a program that displays online advertisement in a banner on the web page.  
a) **Adware**      b) Trojan Horse      c) Worm
- 4) A program that detects the changes caused by a virus in the computer is .....  
a) Virus Detector      b) **Antivirus**      c) None
- 5) A .....is a destructive event the malware is intended to deliver.  
a) **Payload**      b) Download      c) Temp File

#### B) Write True / False of the following statements.

- 1) Virus can damage or destroy the operating system. [T]
- 2) Boot sector virus is a harmless virus program. [F]
- 3) The sleeper virus is known to steal your personal and financial information. [T]
- 4) Virus get activated by downloading an infected file from the internet. [T]
- 5) Virus cannot affect executable file. [F]
- 6) We should ignore new virus alerts and virus hoaxes while using internet. [F]

#### C) Fill in the blanks.

- 1) VIRUS stands for **Vital information Resource Under Seize**.
- 2) Viruses are programmed intentionally by a programmer known as **virus author**.
- 3) A virus enters a computer through an attachment with an **e-mail**.
- 4) **Trojan Horse** virus comes as a friendly program.
- 5) A **virus signature** is a known specific pattern of virus code.

**D) Define the following.**

1. **Rootkit:** It is a program that hides in a computer and allows someone from a remote location to take full control of the computer.
2. **Logic Bomb:** A logic bomb is a program, or portion of a program, which lies dormant until a specific piece of program logic is activated.
3. **Virus Signature:** A virus signature, also called a virus definition, is a known specific pattern of virus code. It is necessary to update your antivirus program signature files often, for tackling the files containing patterns of newly discovered viruses.
4. **Virus Hoax:** Virus hoax is an e-mail message that warns users of a non-existent virus or other malware. It may inform users that an important operating system file on their computer is a virus and encourage them to delete the file, which could make their computer unusable.

**E. Differentiate between the following.**

1. **Worm Virus:** It is a harmless virus that simply replicates itself. But in the long run, it takes over all the resources of the computer system, and eventually the computer becomes useless.

**Trojan Horse:** Trojan Horse virus comes as a friendly program, it is very dangerous as it destroys all the data on our system.

2. **Adware:** It is a program that displays an unwanted advertisement in a banner, pop-up window on web pages, email messages, or on other Internet services.

**Spyware:** A program placed on a computer or mobile device without the user's knowledge secretly collects information about the user and then communicates the same information to some outside source while the user is online.

### F) Answer in one word:-

- 1) Name the popular antivirus software programs:-  
**A) Norton , Macfee, Kaspersky, AVG, Totalav and Quick heal antivirus.**
- 2) Antivirus programs use what as one of their techniques for detecting viruses?  
**A) Virus Signatures**
- 3) Which type of virus that restricts access to your computer system and demands a ransom (money) to be paid in order to remove the restriction?  
**A) Ransomware virus**
- 4) Who has been created first PC virus, called 'Brain'?  
**A) Basit and Farooq Alvi**
- 5) What is used as one of their techniques for detecting viruses?  
**A) Virus Signatures or Virus definition**
- 6) Which is the separate area of a hard disk that holds the infected file until the infection can be removed?  
**a) Quarantine**
- 7) Which antivirus software is developed and distributed by Symantec Corporation?  
**A) Norton Antivirus**
- 8) Which virus checks the system date and does nothing until a pre-programmed date and time is reached?  
**A) Logical Bomb**
- 9) Which is a program placed on a computer or mobile device without the user's knowledge that secretly collects information about the user?  
**A) Spyware software**
- 10) Which are the source of viruses?  
**A) E-mail, Internet download, Distribution of software**
- 11) Which is a term used for computer viruses, worms, Trojan horses and rootkits?  
**A) Malware**
- 12) Which is a program that hides in a computer and allows someone from a remote location to take full control of the computer?  
**A) Rootkit**
- 13) Which is a harmless virus that simply replicates itself?  
**A) Worm**
- 14) Which is a fake antivirus, designed in such a way that it looks like an antivirus software?  
**A) Sweeper virus**
- 15) Which is a computer virus which infects executable (.exe) files?  
**A) Alabama virus**