TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF BUSINESS ADMINISTRATION (M.B.A.)
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SEMESTER - I
Sub: Basics of computers & Information Technology (MBA- 106)

Date: 07/07/2022	**Total marks: 60**	**Time: 2 .00 pm to 4.30pm**

SECTION - I

Q. 1. **Fill in the blanks.** (05)
1. In WAN, W stands for _____.

   a) World   b) Wide

   c) Western   d) Waste

2. POP means Post _____ Protocol.

   a) Office   b) Operation

   c) Offer   d) Output

3. In MIME, E stand for _____.

   a) External   b) Exclusive

   c) English   d) Extension

4. IP means _____ Protocol.

   a) International   b) Interim

   c) Internet   d) Important

5. In SNMP, S stand for _____.

   a) Safe   b) Secure

   c) Simple   d) Separate

Q. 2. **Answer the following. (Any Two)** (20)
1. Explain the generations of computers in detail.

2. What is Multimedia?

3. Explain the types of operating systems.

Q. 3. **Write notes on. (Any Two)** (10)
1. Output Devices
2. Application Software
3. Types of Networks
4. Files

SECTION – II

Q. 4. **Case Study-** (15)

Melissa Virus was hidden in a Microsoft Word attachment. It was programmed in such a way that the recipient would think that it had come from a known person. When the recipient opened the attachment, it was found to contain a list of banned website passwords. The virus on its own would activate a program that read first 50 email addresses located in the MS Outlook email application. Then the virus would email itself to those 50 addresses. The effect of this virus was so quick that Microsoft and Intel had to shut down their servers within 48 hours of its impact. This virus caused damages worth 80 million dollars.

Chernobyl Virus-The Chernobyl nuclear power plant tragedy occurred on 26 April. A virus named after this event activates on its own every year on 26 April. It erases the first megabyte

of data from the system's hard disk which prevents other files from making intended functions. It affects the computer's BIOS chip and wipes out the data on the chip. This prevents the computer from proper functioning till a new BIOS chip is installed or the data on the old chip is restored.

Love Bug Virus-It caused havoc in May 2000. It attacked every fifth computer in the networks all over the world. It used to take an email address from Microsoft Outlook and would mail a message with an attachment titled "Love_Letter_for_You.txt.vbs". Some people used to get attracted by the title and open the file. The virus would then select certain files and substitute the data contained in those files with its own code. This virus caused a loss to the tune of 10 billion dollars.

Worms are computer programs that migrate from one computer to another without attaching themselves to the operating system. They can grow exponentially and spread at a very fast speed via internet.

A Trojan contains hidden functions which are loaded into the computer's hard drive and get executed along with the regular program. The apparently innocuous program contains a subprogram inside it that performs a function that is unknown and undesirable for the user. A Trojan alters the original source code and replaces it with the hidden destructive code. It adds or modifies instructions in a software application before it is operated. After the software is operated, the new instructions are executed along with the remainder of the program.

Stealth Virus infects file or boot record of a computer. The modification made by this virus remains hidden from the user. The virus disables programs, which then try to read infected files. Thus the changes made this virus are not traced by antivirus software.

Polymorphic Virus contains a polymorphic or mutation engine somewhere in its encrypted body. It uses a combination of encryption and self modifying code. To prevent being detected by antivirus software, this virus mutates its decryption engine for each new copy of itself. This virus was developed by a Bulgarian writer who called himself "Dark Avenger".

Questions:
1. Explain worms in short.
2. What are Melissa and Dark Avenger?
3. Explain Trojan in short.
4. What is Chernobyl?
5. Which virus modifications are not traced by antivirus software?

Q. 5. **Answer the following (Any One)** **(10)**

 a) What are the features of Windows Vista?

OR

b) What are the various types of communication media?

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