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Questions:

1. What is malware? How it spread in web? (6)

Malware is a software that can **damage or disable your system** and **gives limited or full control** of the system to the malware creator for the purpose of threat or fraud.

Malware spreads in computer when you download or install an infected software. They also enter your computer through an email or a link.

Once malware enters the computer, it attaches itself to different files and overwrites the data. Some malware are to be executed before it's activated, but some spread immediately.

2. Write down virus life cycle (Stages). (3)

- Design : developing virus code using programming languages or construction kits
- Replication : virus replicates for a period of time within the target system and then spreads itself
- Launch : it gets activated with the user performing certain actions such as running an infected program
- Elimination : users install antivirus updates and eliminate the virus threats
- Incorporation : Antivirus software developers assimilate defenses against the virus
- Detection : A virus is identified as treated infecting target systems .

3. Write down the countermeasures of virus. (4)]

- ✓ Install anti virus software that detects and removes infections as they appear
- ✓ Generate an anti virus policy for safe computing and distribute it to the staff
- ✓ Pay attention to the instructions while downloading files or any programs from the internet
- ✓ Update the anti virus software regularly
- ✓ Avoid opening the attachments received from an unknown sender as viruses spread via email attachments
- ✓ Possibility of virus infection may corrupt data thus regularly maintain data back up

4. How you can be injected by Trojan horse? (2)

Injected trojan horse

- 1) Visit website with unsecure browser
- 2) Even secure browser accept trojan if java enable
- 3) IRC (internet relay chat)
- 4) Come from smtp port