

1. Modify the following texts so that the statements are true.

Safeguarding data is an (~~optional~~) (~~reactive~~) approach to avoid interrupting customer services even when changes are being modified
necessary **proactive**

The network security system (~~is the global solution~~) of an organization's information security infrastructure.
is just a small part

Security services are implemented by (~~security algorithms~~) according to security (~~protocols~~).
security mechanisms **policies**

Security (~~protocols~~) support the security services and execute specific activities for the protection against attacks.
mechanisms

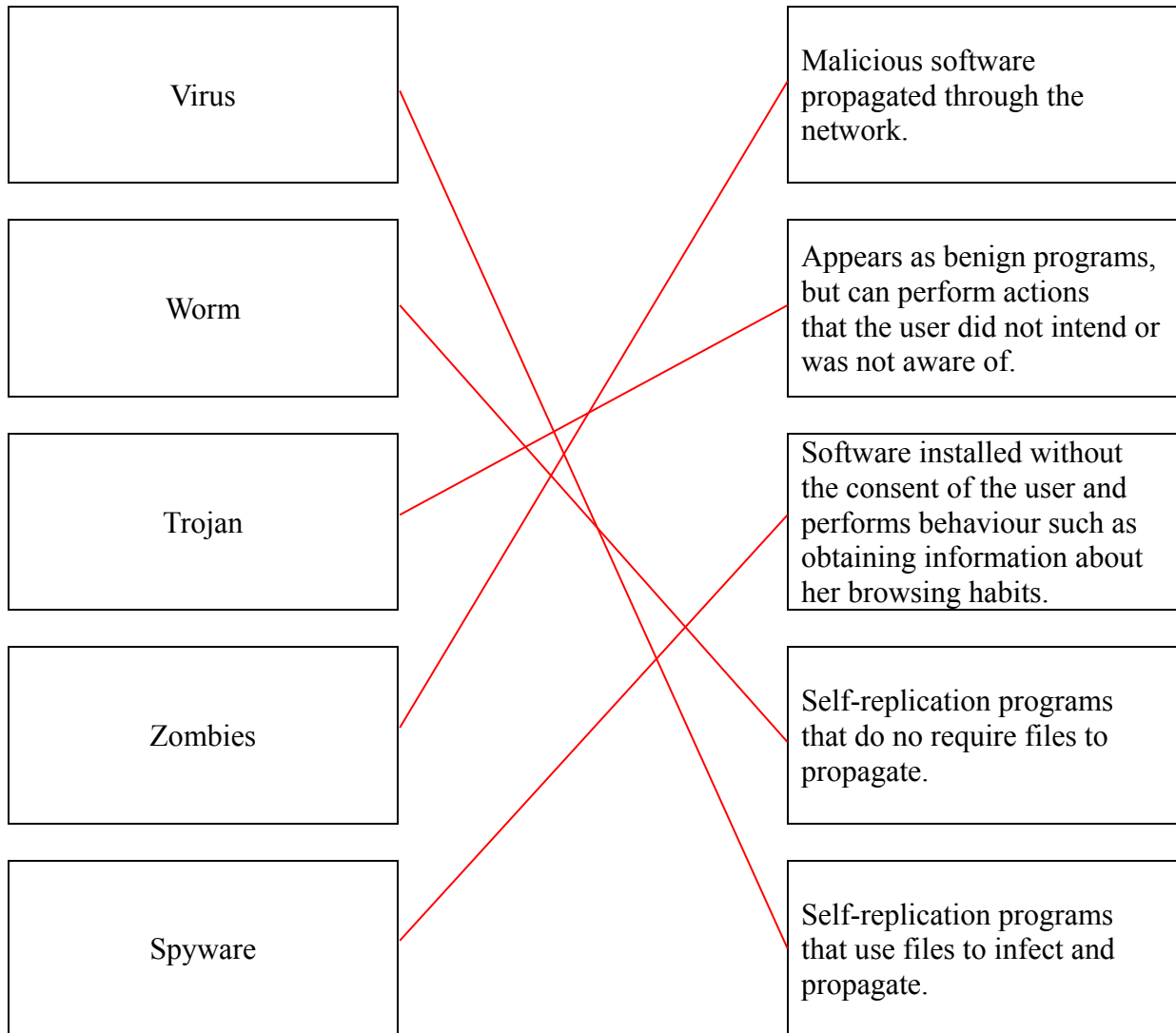
(~~All~~) semi-invasive or invasive attacks are active attacks
Not all

(~~All~~) the security threats are malicious.
Not all

2. Mark the true statements.

- F** Network security only concerns the security in the computers at each end of the communication.
- F** Securing the network is just as important as securing the computers and encrypting the message.
- F** A network security system is a set of hardware devices, that uses and cryptographic algorithms to protect the information and communication systems of a company.
- F** All security mechanisms use cryptographic transformations.
- T** Security mechanisms are divided into those that are implemented in a specific protocol layer and those that are not specific to any particular protocol layer or security service
- T** The ability of an attacker is typically determined by his/her skills, traces he/she leaves behind after an attack and the required cost to spend in terms of equipment.



3. Assign the terms from the left column to the corresponding on the right.

4. Fill the numbers of correct statements concerning network security threats.

2
4
6
7

- 1 – Malware is defective software.
- 2 – Scanner refers to a software program that is used by hackers to remotely determine possible vulnerabilities of a given system.
- 3 – A scanning attack is when a malicious party impersonates another device or user on a network.
- 4 – Sometimes, antivirus can have drawbacks and they can impair the performance of a computer.
- 5 – Eradicating a virus means removing the code in the infected file which corresponds to the virus.
- 6 – A firewall is a typical border control mechanism or perimeter defence.
- 7 – Some IDS systems just monitor and alert of an attack, whereas others try to block it.

