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LESSON 4: INTRODUCTION TO NETWORK SECURITY

EXERCISES

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EXERCISE 1

1. Security services are meant to:
 - a) Defend Internet users from the malfunction of the computers they use to connect to the Internet.
 - b) Protect the communication between users in a network against the attackers that try to make an improper use of the network.
 - c) Allow users to communicate by protecting the networks from software malfunction.
 - d) Make sure that attackers don't try to make an improper use of the networks.

EXERCISE 2

2. Cryptographic mechanisms:
 - a) Are used to build security protocols which allow security services to be provided.
 - b) Don't have anything to do with security mechanisms, which are in fact the ones that offer protection to security services.
 - c) Take part in most of the security services and are based on cryptographic techniques that don't affect security.
 - d) Are used to build security protocols and don't have anything to do with security mechanisms.

EXERCISE 3

3. To protect networks against identity theft, the following services should be used:
 - a) Confidentiality services
 - b) Access control services
 - c) Authentication services
 - d) Data integrity services

EXERCISE 4

4. Social engineering, when referring to the improper use of computer networks, is defined as:
 - a) The ability to get social agents responsible for security involved with the problems of engineering.
 - b) The ability to get the affected social agents to promote security engineering in networks.
 - c) The ability to deceitfully manipulate people into performing actions for your gain.
 - d) The ability to make other people cooperate selflessly to assure the greater good in networks.

EXERCISE 5

5. Against the risk of receiving certain attacks in a computer network:
 - a) Protections that provide total security of the systems and the information they contain can be created.
 - b) Protections that provide total security of the information, but not of the systems, since these can fail, can be created.
 - c) Protections that provide total security can't be established, but totally secure services can be created.
 - d) Protections that provide total security can't be established, but measures that protect in a rather satisfactory manner against the existing risks can be established.

ANSWERS

1. b
2. a
3. c
4. c
5. d

Madrid, Spain, February 2011

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