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and Web Sites 35 1.8

Key Terms, Review

Questions, and

Problems 36 PART

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TECHNOLOGY AND

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The Goal of Information Security. Information security follows three overarching principles, often known as the CIA triad (confidentiality, integrity and availability).

Confidentiality: This means that information is only being seen or used by people who are authorized to access it.

Appropriate security

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to ensure that private
information stays
private and is protected
against unauthorized
disclosure and prying
eyes.

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Processes and files of individual users should be isolated from one another except where it is explicitly desired.

Security mechanisms should be isolated in the sense of preventing access to those mechanisms.

(Fundamental Security

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Figure 3.1 Security's
fundamental principles
are confidentiality,
integrity, and

availability. The CIA
triad comprises all the
principles on which
every security program
is based. Depending on

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the nature of the information assets, some of the principles might have varying degrees of importance in your environment.

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CONTENTS 10.

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Employment Practices
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Kabay and Bridgitt
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availability cannot be
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practices in IS. You'll often see the term CIA triad to illustrate the overall goals for IS throughout the research, guidance, and practices you encounter.

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– should not run
automatic updates on
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Provide encryption for both data at rest and in transit (end-to-end encryption). Ensure proper authentication to allow only trusted

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A good general security
principle is “defense in

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depth”; you should have numerous defense mechanisms (“layers”) in place, designed so that an attacker has to defeat multiple mechanisms to perform a successful attack. For general principles on how to design secure programs, see Section 7.1.

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