

# CHAPTER 1: WHY STUDY INFORMATION SECURITY?

## Multiple Choice:

1. Information security is the process of protecting all of the following except:

- A. Confidentiality of data
- B. Data integrity
- C. Availability of data
- D. Data configuration

**Answer:** D      **Reference:** Growing IT Security Importance

**Difficulty:** moderate

2. Information security managers are often motivated by which of the following?

- A. Concern for the well-being of society
- B. Governmental regulation
- C. Fear of unwanted publicity
- D. All of the above are motivating factors

**Answer:** D      **Reference:** Growing IT Security Importance

**Difficulty:** moderate

3. *Computerworld* magazine quarterly compensation survey did NOT indicate which of the following?

- A. IT security jobs grew 3.1 percent
- B. Bonuses for security professionals climbed 9.5 percent
- C. IT security jobs in the private sector grew by 4.7 percent
- D. Premium pay for security certifications is up 23 percent

**Answer:** C      **Reference:** FYI: Corporate IT Security Jobs Pay

**Difficulty:** moderate

4. Security professionals' activities include all of the following except:

- A. Finding the source of the problem
- B. Naming the virus
- C. Eradicating the problem
- D. Repairing the damage

**Answer:** B      **Reference:** Growing IT Security Importance

**Difficulty:** easy

5. The US Department of Labor predicts \_\_\_\_\_ growth for computer managers and \_\_\_\_\_ demand for managers proficient in computer security issues.
- A. Less, high
  - B. Less, strong
  - C. Less, less
  - D. Strong, strong

**Answer:** A      **Reference:** Increasing Demand by Government      **Difficulty:** moderate

6. Demand for expertly trained security professionals is the result of:
- A. Specialized training
  - B. Increased terrorist activity
  - C. New laws regulating the flow of information
  - D. Retirement of current security professionals

**Answer:** A      **Reference:** Increasing Demand by Government      **Difficulty:** moderate

7. Information security students in a graduate degree program take courses in all of the following except:
- A. Security architecture
  - B. Computer programming
  - C. Laws and ethics
  - D. Disaster recovery planning

**Answer:** B      **Reference:** Becoming an Information Security Specialist      **Difficulty:** moderate

8. Students with a degree in information security are prepared to:
- A. Identify information security risks
  - B. Identify and evaluate technology tools
  - C. Oversee the development of a secure information security infrastructure
  - D. Students are prepared for all of the above

**Answer:** D      **Reference:** Becoming an Information Security Specialist      **Difficulty:** moderate

9. One increasingly important step to becoming an information security specialist is to:
- A. Get a degree in the psychology of crime

- B. Create, test, and debug a virus or worm program
- C. Build a home laboratory
- D. Do all of the above

**Answer:** C      **Reference:** Becoming an Information Security Specialist      **Difficulty:** moderate

**10.** Students pursuing a career in information security should consider

- A. Increasing their disaster recovery and risk management skills
- B. Earning a graduate degree in information security
- C. Giving back to the information security community
- D. All of the above

**Answer:** D      **Reference:** Becoming an Information Security Specialist      **Difficulty:** moderate

**11.** *Information Security* magazine suggests that a good curriculum includes courses in:

- A. Quality assurance
- B. Legal issues
- C. Human factors
- D. Bioengineering

**Answer:** A      **Reference:** Multidisciplinary Approach      **Difficulty:** moderate

**12.** The benefit of mixing computer courses with liberal arts courses is \_\_\_\_\_.

- A. objectivity
- B. perspective
- C. vision
- D. independence

**Answer:** B      **Reference:** Multidisciplinary Approach      **Difficulty:** moderate

**13.** An organization's security posture is defined and documented in \_\_\_\_\_ that must exist before any computers are installed.

- A. standards
- B. guidelines
- C. procedures

D. All of the above

**Answer:** D      **Reference:** Contextualizing Information Security

**Difficulty:** moderate

14. \_\_\_\_\_ establish and maintain the user base permitted to access a system in the normal course of their job duties.

- A. Security testers
- B. Security administrators
- C. Access coordinators
- D. Network engineers

**Answer:** C      **Reference:** Information Security Careers

**Difficulty:** moderate

15. \_\_\_\_\_ assure that outsourced functions are operating within security policies and standards.

- A. Security testers
- B. Vendor managers
- C. Security administrators
- D. Access coordinators

**Answer:** B      **Reference:** Information Security Careers

**Difficulty:** moderate

16. \_\_\_\_\_ establish and maintain the user base permitted to access a system in the normal course of their job duties.

- A. Security testers
- B. Security administrators
- C. Access coordinators
- D. Network engineers

**Answer:** C      **Reference:** Information Security Careers

**Difficulty:** moderate

17. \_\_\_\_\_ are hired to find software problems and bugs before the system is made available for day-to-day operation.

- A. Security administrators
- B. Security testers
- C. Access coordinators

D. Network engineers

**Answer:** B      **Reference:** Information Security Careers

**Difficulty:** moderate

18. Which of the following is NOT considered a common position or career opportunity in information security?

- A. Security consultant
- B. Compliance officers
- C. Information librarian
- D. Governance manager

**Answer:** C      **Reference:** Information Security Careers

**Difficulty:** moderate

19. Topics within the umbrella of information security include all of the following except:

- A. Incident response
- B. Key management
- C. Electronic forensics
- D. Security testing

**Answer:** C      **Reference:** Contextualizing Information Security

**Difficulty:** difficult

**Fill in the Blank:**

20. Electronic crime includes identity theft, \_\_\_\_\_, and pirated bank accounts.

**Answer:** forgery

**Reference:** Introduction

**Difficulty:** easy

21. \_\_\_\_\_ is the process of protecting the confidentiality, integrity, and availability of data from accidental or intentional misuse.

**Answer:** Information security      **Reference:** Growing IT Security Importance

**Difficulty:** easy

22. Virus and \_\_\_\_\_ outbreaks prevent users from accessing the systems they need in order to perform their jobs.

**Answer:** worm

**Reference:** Growing IT Security Importance

**Difficulty:** moderate

23. Information security consists of best practices and experiences from several domains but begins with the non-technical, \_\_\_\_\_ aspects of a security posture.

**Answer:** human-centric      **Reference:** Becoming an Information Specialist      **Difficulty:** moderate

24. In 2003, the \_\_\_\_\_ exploited a flaw in a software feature found in most Microsoft desktop and server systems.

**Answer:** MS Blast worm      **Reference:** Growing IT security Importance      **Difficulty:** moderate

25. Information security specialists need to have a(n) \_\_\_\_\_ view of the world around them and avoid a strictly technical orientation.

**Answer:** holistic      **Reference:** Multidisciplinary Approach      **Difficulty:** difficult

26. \_\_\_\_\_ security is within the umbrella of information security.

**Answer:** Physical      **Reference:** Contextualizing Information Security      **Difficulty:** moderate

**Matching:**

27. Match the following terms to their meanings:

- |                            |  |
|----------------------------|--|
| I. Security administrators | A. find software problems and bugs                           |
| II. Access coordinators    | B. perform risk analysis of new systems                      |
| III. Security architects   | C. maintain user base permitted to access and use the system |
| IV. Security consultants   | D. design and implement network infrastructures              |
| V. Security testers        | E. establish new user accounts                               |

**Answer:** E C D B A      **Reference:** Information Security Careers      **Difficulty:** moderate

28. Match the following terms to their meanings:

- |           |  |
|-----------|--|
| I. CISSP  | A. GIAC Security Essentials Certification              |
| II. GIAC  | B. Global Information Assurance Certification          |
| III. GSEC | C. Information Security                                |
| IV. GCFA  | D. Certified Information Systems Security Professional |
| V. IS     | E. GIAC Certified Forensic Analyst                     |

**Answer:** D B A E C      **Reference:** Becoming an Information Security Specialist      **Difficulty:** easy