

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