# Management of Information Security 4th Edition Whitman Test Bank

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# **Chapter 01 - Introduction to the Management of Information Security**

TRU	J <b>E</b> /	FΑ	L	SE
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1.	Corruption of inform	nation ca	an occur only w	hile in	formation is being stored.		
	ANS: F	PTS:	1	REF:	6		
2.	The authorization process takes place before the authentication process.						
	ANS: F	PTS:	1	REF:	8		
3.	The first step in solv	ing prol	olems is to gath	er facts	and make assumptions.		
	ANS: F	PTS:	1	REF:	12		
4.	Project scope manag necessary to complet		ensures that the	project	plan includes only those activities that are		
	ANS: T	PTS:	1	REF:	20		
5.	A project can have m	nore tha	n one critical p	ath.			
	ANS: T	PTS:	1	REF:	28		
MUL	TIPLE CHOICE						
1.	Communications sec	urity in	volves the prote	ection o	of which of the following?.		
1.	a. radio handsets	carrey in	vorves the prot	c.			
	b. people, physical	assets		d.	media, technology, and content		
	ANS: D	PTS:	1	REF:	4		
2.	_	.A. triar	ngle, which of t	he follo	owing is a desirable characteristic for computer		
	security? a. accountability			c.	authorization		
	b. availability				authentication		
	ANS: B	PTS:	1	REF:	6		
3.	Which of the followi and a demonstrated r a. Integrity b. Availability				Authentication		
	ANS: D	PTS:	1	REF:	•		
	ANS. D	Г13.	1	KEI.	O .		
4.			rtificates to esta	ablish S	ecure Sockets Layer (SSL) connections is an		
	example of which proa. accountability	ocess?		2	identification		
	<ul><li>a. accountability</li><li>b. authorization</li></ul>			c. d.	authentication		
	ANS: D	PTS:	1	REF:			
	11.10. D	1 10.	•	1111.	, 🗸		

	<ul><li>a. identification</li><li>b. authorization</li></ul>		c. d.	accountability authentication
	ANS: C	PTS: 1	REF:	8
6.	Which of the follow accomplishment of a. leading b. controlling		c.	organizing planning
	ANS: D	PTS: 1	REF:	9
7.		ring is the principle of lishment of objectives	?	nent dedicated to the structuring of resources to controlling
	b. planning			leading
	ANS: A	PTS: 1	REF:	10
8.	<ul><li>a. Analyze and con</li><li>b. Develop possible</li><li>c. Recognize and on</li></ul>		utions	em-solving process?
	ANS: C	PTS: 1	REF:	12
9.	<ul><li>a. Select, impleme</li><li>b. Analyze and cor</li></ul>	ring is NOT a step in the step	tion ons	
	ANS: C	PTS: 1	REF:	11-13
10.	Which of the follow a. planning b. protection	ing is NOT a unique f	c.	of Information Security Management? project management principles
	ANS: D	PTS: 1	REF:	13
11.		_	a set of o	ecurity Management seeks to dictate certain rganizational guidelines?  programs people
	ANS: B	PTS: 1	REF:	14
12.	Which function of In SETA program?  a. protection b. people c. projects d. policy	nfoSec Management e	encompas	sses security personnel as well as aspects of the

5. What do audit logs that track user activity on an information system provide?

	ANS: B PTS: 1 R	REF: 15						
13.	Information security project managers often follow methodologies based on what methodology promoted by the Project Management Institute?  a. The Security Systems Development Life Cycle (SecSDLC)  b. The Security Project And Management Methodology (SPAMM)  c. Project Management System Methodology (PMS/Meth)  d. Project Management Body of Knowledge (PMBoK)							
	ANS: D PTS: 1 R	REF: 17-18						
14.	<ul><li>Which of the following is NOT a knowledge a</li><li>a. Integration</li><li>b. Quality</li></ul>	area in the Project Management knowledge body? c. Scope d. Technology						
	ANS: D PTS: 1 R	REF: 19						
15.	<ul> <li>What is one of the most frequently cited failure</li> <li>a. Overly restrictive management</li> <li>b. Excessive personnel on project</li> <li>c. Failure to meet project deadlines</li> <li>d. Loose or ambiguous project specifications</li> </ul>							
	ANS: C PTS: 1 R	REF: 21						
16.	<ul><li>is NOT among them?</li><li>a. All workers operate at approximately the</li><li>b. Not all workers begin the project with the</li><li>c. Skill mixtures among the actual project w plan.</li><li>d. Some tasks may require skills that are not</li></ul>	e same degree of skill vorkers seldom match the needs of the project						
17.	. In the WBS approach, the project plan is first	t broken down into tasks placed on the WBS task list. The for each task include all but which of the following? deliverables) completion, in hours or workdays I to perform the task						
	ANS: D PTS: 1 R	REF: 25						
18.	expanding engineering projects associated with a. GANTT b. PERT	oped in the late 1950s to meet the need of the rapidly ith government acquisitions such as weapons systems?  c. CPM d. WBS  REF: 27						
19.	. Using the Program Evaluation and Review Te	echnique, which of the following identifies the sequence st duration to complete, and that therefore cannot be  c. critical path						

	b. cr	itical function			d.	crucial factor set		
	ANS:	C	PTS:	1	REF:	27		
20.	It is possible to take a very complex operation and diagram it in PERT if you can answer three key questions about each activity. Which of the following is NOT one of them?  a. How long will it take?  b. What activity occurs immediately before this activity?  c. What activity occurs immediate activity after this activity?  d. What other activities require the same resources as this activity?							
	ANS:	D	PTS:	1	REF:	27		
COM	PLETI	ION						
1.	The the	_	anning	are strategic pla	anning,	tactical planning, and		
	ANS:	operational						
	PTS:	1	REF:	9				
2.		et of organization	_	delines that dic	tates ce	ertain behavior within the organization is called		
	ANS:	policy						
	PTS:	1	REF:	14				
3.	the or	iginal project pl	occ an.	eurs when the q	uantity	or quality of project deliverables is expanded from		
	ANS:	Scope creep						
	PTS:	1	REF:	20				
4.		project delivera		•	nents sp	pecified in the project plan, the project has met its		
	ANS:	Quality						
	PTS:	1	REF:	22				
5.	In the	PERT techniqu	ie, the d	ifference in tim	ne betw	een the critical path and any other path is called		
	ANS:	slack time						
	PTS:	1	REF:	28				

# **MATCHING**

- a. identification
- b. authentication
- c. scope creep
- d. slack time
- e. information security

- f. integrity
- g. project management
- h. Operations security
- i. authorization
- j. organizing
- 1. the difference between the time needed to complete the critical path and the time needed to arrive at completion using any other path
- 2. a mechanism that provides information about a supplicant that wants to be granted access to a known entity
- 3. a process for identifying and controlling the resources applied to the project
- 4. a state that occurs when the quantity or quality of project deliverables is expanded from the original project plan
- 5. a process that determines if a user has been specifically and explicitly authorized by the proper authority to perform a function
- 6. the protection of information and its critical characteristics
- 7. the management function dedicated to the structuring of resources to support the accomplishment of objectives
- 8. a specialized area of security that encompasses protecting the organization's ability to carry out its operational activities without interruption or compromise
- 9. the process of validating a supplicant's purported identity, thus ensuring that the entity requesting access is the entity it claims to be
- 10. a quality or state of being whole, complete, and uncorrupted

1	ANS:	D	PTS:	1	REF:	28
		_		_		
۷.	ANS:	A	PTS:	1	REF:	/
3.	ANS:	G	PTS:	1	REF:	15
4.	ANS:	C	PTS:	1	REF:	20
5.	ANS:	I	PTS:	1	REF:	8
6.	ANS:	E	PTS:	1	REF:	4
7.	ANS:	J	PTS:	1	REF:	10
8.	ANS:	H	PTS:	1	REF:	4
9.	ANS:	В	PTS:	1	REF:	7
10.	ANS:	F	PTS:	1	REF:	6

## **SHORT ANSWER**

1. Explain the differences between a leader and a manager.

## ANS:

The distinctions between a leader and a manager arise in the execution of organizational tasks. A leader provides purpose, direction, and motivation to those that follow. By comparison, a manager administers the resources of the organization. He or she creates budgets, authorizes expenditures, and hires employees.

PTS: 1 REF: 8

2. List and explain the critical characteristics of information as defined by the C.I.A. triangle.

ANS:

Confidentiality of information ensures that only those with sufficient privileges and a demonstrated need may access certain information. When unauthorized individuals or systems can view information, confidentiality is breached.

Integrity is the quality or state of being whole, complete, and uncorrupted. The integrity of information is threatened when it is exposed to corruption, damage, destruction, or other disruption of its authentic state.

Availability is the characteristic of information that enables user access to information without interference or obstruction and in a useable format.

PTS: 1 REF: 6-7

3. List and explain the four principles of management under the contemporary or popular management theory. Briefly define each.

#### ANS:

Popular management theory, which categorizes the principles of management into planning, organizing, leading, and controlling (POLC).

The process that develops, creates, and implements strategies for the accomplishment of objectives is called planning.

The management function dedicated to the structuring of resources to support the accomplishment of objectives is called organization.

Leadership includes supervising employee behavior, performance, attendance, and attitude. Leadership generally addresses the direction and motivation of the human resource.

Monitoring progress toward completion, and making necessary adjustments to achieve desired objectives, requires the exercise of control.

PTS: 1 REF: 9-11

4. List the steps that can be used as a basic blueprint for solving organizational problems.

### ANS:

- 1. Recognize and Define the Problem
- 2. Gather Facts and Make Assumptions
- 3. Develop Possible Solutions
- 4. Analyze and Compare Possible Solutions.
- 5. Select, Implement and Evaluate a Solution.

PTS: 1 REF: 12-13

5. List the advantages and disadvantages of using the Program Evaluation and Review Technique method?

### ANS:

Among the advantages to the PERT method are:

- >Planning large projects is made easier by facilitating the identification of pre- and post activities.
- >Planning to determine the probability of meeting requirements (that is, timely delivery through calculation of critical paths) is allowed.

- >The impact of changes on the system are anticipated. Should a delay in one area occur, how does it affect the overall project schedule?
- >Information is presented in a straightforward format that both technical and non-technical managers can understand and refer to in planning discussions.
- >No formal training is required. After a brief explanation most people understand it thoroughly.

## Disadvantages of the PERT method include:

- >Diagrams can become awkward and cumbersome, especially in very large projects.
- >Diagrams can become expensive to develop and maintain due to the complexities of some project development processes.
- >It can be difficult to place an accurate "time to complete" on some tasks, especially in the initial construction of a project; inaccurate estimates invalidate any close critical path calculations.

PTS: 1 REF: 28-29

6. What are the three distinct groups of decision makers or communities of interest on an information security team?

### ANS:

Managers and professionals in the field of information security Managers and professionals in the field of IT Managers and professionals from the rest of the organization

PTS: 1 REF: 3

7. List the four specialized areas of security.

### ANS:

Physical security Operations security Communications security Network security

PTS: 1 REF: 4

8. List three measures that are commonly used to protect the confidentiality of information.

### ANS:

Information classification
Secure document (and data) storage
Application of general security policies
Education of information custodians and end users
Cryptography (encryption)

PTS: 1 REF: 6

9. What is authentication? Provide some examples.

### ANS:

Authentication is the process by which a control establishes whether a user (or system) has the identity it claims to have. Examples include the use of cryptographic certificates to establish Secure Sockets Layer (SSL) connections as well as the use of cryptographic hardware devices—for example, hardware tokens such as RSA's SecurID. Individual users may disclose a personal identification number (PIN) or a password to authenticate their identities to a computer system.

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PTS: 1 REF: 7

10. Discuss the planning element of information security.

### ANS:

Planning in InfoSec management is an extension of the basic planning model. Included in the InfoSec planning model are activities necessary to support the design, creation, and implementation of InfoSec strategies within the IT planning environment. The business strategy is translated into the IT strategy. Both the business strategy and the IT strategy are then used to develop the InfoSec strategy. For example, the CIO uses the IT objectives gleaned from the business unit plans to create the organization's IT strategy.

PTS: 1 REF: 13