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Chapter 01:	Introduction	to Inf	formatio	n Securit	y
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Γπ	ue	/1	Fal	lse
	1	/		20

True / False			
1. During the early years of the products of the system		primary threats to security	were physical theft of equipment, espionage against
	a.	True	
	b.	False	
ANSWER:			True
2. Network security focuse misuse.	es on the protecti	on of physical items, objec	ets, or areas from unauthorized access and
	a.	True	
	b.	False	
ANSWER:			False
3. The value of informatio	n comes from the	e characteristics it possesse	es.
	a.	True	
	b.	False	
ANSWER:			True
4. When a computer is the	subject of an att	ack, it is the entity being at	tacked.
•	a.	True	
	b.	False	
ANSWER:			False
5. E-mail spoofing involve	es sending an e-n	nail message with a harmfu	ıl attachment.
	a.	True	
	b.	False	
ANSWER:			False
6. The possession of inform	mation is the qua	lity or state of having value	e for some purpose or end.
	a.	True	
	b.	False	
ANSWER:			False
7. A breach of possession	may not always i	result in a breach of confidence	entiality.
	a.	True	
	b.	False	
ANSWER:			True
8. Hardware is often the m	nost valuable asse	et possessed by an organiza	ation, and it is the main target of intentional attacks.
	a.	True	-
	b.	False	
ANSWER:			False

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	a.	True	
	b.	False	
ANSWER:			False
	_	an information system that satisfy, yet protect against threats.	sfies the user and the security professional—the
	a.	True	
	b.	False	
ANSWER:			True
11. The bottom-up app	proach to information	n security has a higher probabili	ty of success than the top-down approach.
	a.	True	
	b.	False	
ANSWER:			False
12. Using a methodolo	ogy will usually have	no effect on the probability of	success.
	a.	True	
	b.	False	
ANSWER:			False
13. The implementation	on phase is the longe	st and most expensive phase of	the systems development life cycle (SDLC).
	a.	True	
	b.	False	
ANSWER:			False
14. The investigation project.	phase of the SDLC in	nvolves specification of the obje	ectives, constraints, and
	a.	True	
	b.	False	
ANSWER:			True
15. The physical desig	gn is the blueprint for	the desired solution.	
	a.	True	
	b.	False	
ANSWER:			False
16. In the physical des	sign phase, specific to	echnologies are selected.	
	a.	True	
	b.	False	
ANSWER:			True
		C in which each phase of the prost to return to previous phases an	cess flows from the information gained in the ad make adjustments.

True

a.

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	b.	False	
ANSWER:			False
		may be a departmental line manaity technical requirements.	ager or staff unit manager, and has expertise in
	a.	True	
	b.	False	
ANSWER:			False
19. A data custodian value information.	works directly with d	ata owners and is responsible for	the storage, maintenance, and protection of
	a.	True	
	b.	False	_
ANSWER:			True
20. The roles of information security c			ed with the goals and mission of the
	a.	True	
AMGHAED	b.	False	T.
ANSWER:			True
Modified True / False	:		
21 MULTICS stands	for Multiple Informa	ation and Computing Service.	
ANSWER:	101 <u>11101111</u>	False - Multiplexed	
22. According to the O	CNSS, <u>networking</u> is	"the protection of information as	nd its critical elements."
ANSWER:	False -	information security	
23. <u>Indirect</u> attacks or of a threat.	-	omised system or resource that i	s malfunctioning or working under the control
ANSWER:			True
24. Information has re	edundancy when it is	free from mistakes or errors and	it has the value that the end user expects.
ANSWER:		False - accuracy	
25. When unauthorize	ed individuals or syste	ems can view information, confid	dentiality is breached.
ANSWER:			True
26. Confidentiality en	sures that only those	with the rights and privileges to	access information are able to do so.
ANSWER:			True

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	ology that houses and executes the softward removal of information from the system	
ANSWER:		True
28. A(n) <u>hardware</u> system is the en	tire set of people, procedures, and technol-	ogy that enable business to use information.
ANSWER:	False - information	
of their systems, often referred to a	- · · · · · · · · · · · · · · · · · · ·	ministrators attempt to improve the security
ANSWER:		True
30. Key end users should be assign	ned to a developmental team, known as the	<u>united</u> application development team.
ANSWER:	False - joint	
31. Of the two approaches to inforsuccess.	mation security implementation, the top-do	own approach has a higher probability of
ANSWER:		True
32. The <u>Security</u> Development Life information system	e Cycle (SDLC) is a general methodology False - Systems	for the design and implementation of an
	•	
constraints, and scope of the project	C examines the event or plan that initiates et.	the process and specifies the objectives,
ANSWER:	False - Investigation	
rapid improvements to system fund security and minimize the disruption	the need for the development team to prove etionality and the need for the operations to on from software release cycles	eam to improve
ANSWER:	False - DevOps	
35. A(n) <u>project team</u> should consitechnical and nontechnical areas.	st of a number of individuals who are expe	erienced in one or multiple facets of the
ANSWER:		True
Multiple Choice		
36 is a network proje	ect that preceded the Internet.	
a. NIST	b. ARPANE	CT .
c. FIPS	d. DES	1
ANSWER:		b
37. The famous study entitled "Prounderstand and detect	ntection Analysis: Final Report" focused on in operating systems security.	n a project undertaken by ARPA to
a. bugs	b. vulnerabilities	

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c. malware	d. maintenance hooks	1
ANSWER:		b
38 was the first operating system	to integrate security as one of its cor	e functions.
a. UNIX	b. DOS	
c. MULTICS	d. ARPANI	ET
ANSWER:		c
39. security addresses the issues r	necessary to protect the tangible items	s, objects, or areas of an organization
from unauthorized access and misuse.		
a. Physical	b. Person	
c. Object	d. Standa	rd
ANSWER:		a
40. A server would experience a(n)location using a network connection.	_ attack when a hacker compromises	s it to acquire information via a remote
a. indirect	b. direct	
c. software	d. hardwa	re
ANSWER:		ь
41. A computer is the of an attack	when it is used to conduct an attack	against another computer
a. subject	b. object	against another computer.
c. target	d. facilitator	
ANSWER:		a
	r state of being genuine or original.	
a. Authenticity	b. Spoofing	
c. Confidentiality	d. Authoriz	
ANSWER:		a
43. In file hashing, a file is read by a special al number called the value.	gorithm that uses the value of the bits	s in the file to compute a single
a. result	b. smashing	
c. hash	d. code	
ANSWER:		c
44 has become a widely accepted information systems.	l evaluation standard for training and	education related to the security of
a. NIST SP 800-12	b. NSTISSI No.	4011
c. IEEE 802.11(g)	d. ISO 17788	
ANSWER:		b
45. An information system is the entire set of _ information resources in the organization.		networks that enable the use of
a. software	b. hardware	

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c. data	d. All of the above	
ANSWER:		d
46. A methodology and formal development referred to as a	nt strategy for the design and implemen	atation of an information system is
a. systems design	b. develop	pment life project
c. systems development life cycle	d. systems	s schema
ANSWER:		С
47. An emerging methodology to integrate functionality and security of applications is		the operations team to improve the
a. SDLC		DevOps
c. JAD/RAD	d. S	ecOps
ANSWER:		b
48. A type of SDLC in which each phase has a pitfall	has results that flow into the next phase is b. SA&D	
c. waterfall	d. Metho	od 7
ANSWER:		c
49. During the phase, specific the prior phases.	technologies are selected to support the	e alternatives identified and evaluated in
a. investigation	b. implementar	tion
c. analysis	d. physical des	sign
ANSWER:		d
50. Which of the following phases is often life cycle?	considered the longest and most expens	sive phase of the systems development
a. investigation	b. logical design	
c. implementation	d. maintenance and cha	e
ANSWER:		d
51. Organizations are moving toward more the functionality of the systems they have it		
a. security	b. reliab	
c. accessibility	d. availa	ability
ANSWER:		a
52. The design phase of an SI reference to specific technologies, vendors	DLC methodology is implementation in , or products.	dependent, meaning that it contains no
a. conceptual	_	ogical
c. integral	d. p	hysical
ANSWER:		b
53. The is the individual primarily res	sponsible for the assessment, management	ent, and implementation of information

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security in th	ne orga	nization							
·	_	a.	ISO			b.	CIO		
		c.	CISO			d.	CTO		
ANSWER:									c
54. Which of	f the fo	ollowing	is a valid type	e of role when	it comes to	data owner	ship?		
г	a. [ata owr	ners		b.	Data cust	odians		
C	е. Г	Data usei	`S		d.	All of the	above		
ANSWER:									d
•				y for administ	ering the sys	stems that h	ouse the informa	ition used by t	he
organization	_		ole of urity policy de	valonars					
	a. b.		rity policy de rity profession	•					
			em administra						
	c. d.	•	users	1018					
ANSWER:	u.	Liid	users						c
56 The most	aatian	of all ac	i ooti oo	madia taabu	alaav and a	antant is Irm			
36. The prob	a.		mmunications s	media, techno	ology, and c	ontent is kn	iown as	·	
	b.		work security	ceurity					
	c.		sical security						
	d.		rmation secur	itv					
ANSWER:	u.	Шо	imation secur	ity					a
57 The prote	ection	of the co	onfidentiality	integrity and	availahility	of informat	ion assets, wheth	ner in storage	nrocessing
							ss, and technolog		
	_· a.	com	munications s	ecurity					
	b.	netv	vork security						
	c.	phy	sical security						
	d.	info	rmation secur	ity					
ANSWER:									d
58. The prote	ection	of tangil	ble items, obje	ects, or areas fi	rom unautho	orized acces	s and misuse is k	cnown as	
	a.	com	munications s	ecurity					
	b.	netv	vork security						
	c.	phy	sical security						
	d.	info	rmation secur	ity					
ANSWER:									c
59. A subjec	t or ob	ject's ab	oility to use, m	anipulate, mo	dify, or affe	ct another s	ubject or object i	s known as _	
-			a.	access	-		-		
			b.	assets					

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	c.	exploits		
	d.	risk		
ANSWER:				a
	esource is phy			Web site, software information, or e, or other tangible object. Either
a	acc	ess method		
b	o. ass	et		
c	exp	oloit		
d	l. risl	ζ		
ANSWER:				b
61. A technique used t	o compromise	e a system is known as a(1	1) .	
a	acc	ess method	, 	
b	o. ass	et		
c	exp	oloit		
d	l. risl	ζ		
ANSWER:				c
Completion				
62. The history of info	rmation secur	ity begins with the conce	pt of	security.
ANSWER:			computer	
63. During the early ye		ion security was a straighted simple document classi		ed predominantly of
ANSWER:			physical	
64. During thesophisticated tasks, so mailing magnetic tape	it became nec	essary to enable the main	nes were brought online t	to accomplish more complex and via a less cumbersome process than
ANSWER:				Cold
65. The Internet broug connected local area n		to virtually	all computers that could	reach a phone line or an Internet-
ANSWER:		co	onnectivity	
66. The CNSS model as the			concept developed by the	e computer security industry known
ANSWER:	CIA			
	C.I.A. Confident	tiality, Integrity, and Avai	lability	
67 A communication in the			•	tamastad
ANSWER:		of an attack w	object	

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	enables authorized users—people or compute	er systems—to access information without
interference or obstruction	and to receive it in the required format.	
ANSWER:	Availability	
69or fabrication.	_ of information is the quality or state of being	genuine or original, rather than a reproduction
ANSWER:	Authenticity	
70. Information has	when it is whole, complete, a	and uncorrupted.
ANSWER:		egrity
71. In an organization, the information about employe	value of of informatio ees, customers, or patients.	n is especially high when it involves personal
ANSWER:	confidentiality	
72. The	of information is the quality or state of o	wnership or control of some object or item.
ANSWER:	possession	
73. The	component of an information system cor	nprises applications, operating systems, and
assorted command utilities		
ANSWER:	soft	ware
	ed under the constraints of	management, placing limits on time, cost,
and manpower.		
ANSWER:		project
75. A frequently overlooke for accomplishing a specifi	d component of an information system,	are the written instructions
ANSWER:	procedures	
76. In the	approach, the project is initiated by upp	per-level managers who issue policy,
	dictate the goals and expected outcomes, and de	etermine accountability for each required
action.		
ANSWER:	top-dov	vn
77. A(n)	is a formal approach to solving a proble	m by means of a structured sequence of
procedures.		
ANSWER:	methodology	
78. The		of the organization, its current systems, and its
capability to support the pr		advaia
ANSWER:	ar	nalysis
	phase of the systems life cycle, the	
event or plan that initiated	the process. During this phase, the objectives, co	
specified.		

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ANSWER:		investigation	
80. The sens	ior technology officer is typically the chief _	information	officer.
81. A(n) organization ANSWER:	is a group of individua and who share a common goal of helping th community of	e organization to m	by similar interests or values within an eet its objectives.
82. A poten ANSWER:	tial weakness in an asset or its defensive cont	trol system(s) is known vulnerability	own as a(n)
83. Any eve ANSWER:	ent or circumstance that has the potential to ac	dversely affect oper	ations and assets is known as a(n) threat
84. The prob ANSWER:	bability of an unwanted occurrence, such as a	an adverse event or	loss, is known as a(n) threat
Essay			
85. Describe ANSWER:	e the multiple types of security systems prese A successful organization should have the f operations, including physical, personnel, or	ollowing multiple la	ayers of security in place to protect its
	Physical security, to protect physical items,	objects, or areas fro	om unauthorized access and misuse
	Personnel security, to protect the individual organization and its operations	or group of individ	uals who are authorized to access the
	Operations security, to protect the details of	a particular operati	on or series of activities
	Communications security, to protect commu	unications media, te	echnology, and content
	Network security, to protect networking cor	nponents, connection	ons, and contents
	Information security, to protect the confider in storage, processing, or transmission. It is awareness, and technology.		nd availability of information assets, whether plication of policy, education, training and
86. List and ANSWER:	describe the phases of the traditional system Investigation The investigation phase begins with a direct and goals of the project, as well as its budge anterprise information security policy with a direct contemption of the project.	tive from upper man	nagement, dictating the process, outcomes,

organization. Teams of responsible managers, employees, and contractors are organized; problems are analyzed; and the scope of the project, as well as specific goals and objectives, and any additional constraints not covered in the program policy, are defined. Finally, an organizational feasibility analysis is performed to determine whether the organization has the resources and commitment necessary to conduct a successful

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security analysis and design.

Analysis

In the analysis phase, the documents from the investigation phase are studied. The development team conducts a preliminary analysis of existing security policies or programs, along with that of documented current threats and associated controls. This phase also includes an analysis of relevant legal issues that could affect the design of the security solution. Increasingly, privacy laws have become a major consideration when making decisions about information systems that manage personal information. Recently, many states have implemented legislation making certain computer-related activities illegal. A detailed understanding of these issues is vital. The risk management task also begins in this stage. **Risk management** is the process of identifying, assessing, and evaluating the levels of risk facing the organization, specifically the threats to the organization's security and to the information stored and processed by the organization.

Logical Design

The logical design phase creates and develops the blueprints for information security, and examines and implements key policies that influence later decisions. Also at this stage, the team plans the incident response actions to be taken in the event of partial or catastrophic loss. The planning answers the following questions:

- Continuity planning: How will business continue in the event of a loss?
- Incident response: What steps are taken when an attack occurs?
- Disaster recovery: What must be done to recover information and vital systems immediately after a disastrous event?

Next, a feasibility analysis determines whether the project should be continued or outsourced.

Physical Design

In the physical design phase, the information security technology needed to support the blueprint outlined in the logical design is evaluated, alternative solutions generated, and a final design agreed upon. The information security blueprint may be revisited to keep it in line with the changes needed when the physical design is completed. Criteria for determining the definition of successful solutions are also prepared during this phase. Included at this time are the designs for physical security measures to support the proposed technological solutions. At the end of this phase, a feasibility study should determine the readiness of the organization for the proposed project, and then the champion and sponsors are presented with the design. At this time, all parties involved have a chance to approve the project before implementation begins.

Implementation

In the implementation phase, the security solutions are acquired (made or bought), tested, implemented, and tested again. Personnel issues are evaluated, and specific training and education programs conducted. Finally, the entire tested package is presented to upper management for final approval.

Maintenance and Change

The maintenance and change phase, though last, is perhaps most important, given the current ever-changing threat environment. Today's information security systems need constant monitoring, testing, modification, updating, and repairing. Traditional applications systems developed within the framework of the traditional SDLC are not designed to anticipate a vicious attack that would require some degree of application reconstruction. In information security, the battle for stable, reliable systems is a defensive one. Often, repairing damage and restoring information is a constant effort against an unseen adversary. As new threats emerge and old threats evolve, the information security profile of an organization requires constant adaptation to prevent threats from successfully penetrating sensitive data. This constant vigilance and security can be compared to that of a fortress where threats from outside as well as from within must be constantly monitored and checked with continuously new and more innovative technologies.

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87. Outline types of data ownership and their respective responsibilities.

ANSWER: Data owners: Those responsible for the security and use of a particular set of information. They are usually members of senior management and could be CIOs. The data owners usually determine the level of data classification associated with the data, as well as the changes to that classification required by organizational change.

Data custodians: Working directly with data owners, data custodians are responsible for the storage, maintenance, and protection of the information. The duties of a data custodian often include overseeing data storage and backups, implementing the specific procedures and policies laid out in the security policies and plans, and reporting to the data owner.

Data users: End users who work with the information to perform their daily jobs supporting the mission of the organization. Data users are included as individuals with an information security role.