Principles of Incident Response and Disaster Recovery 1st Edition Whitman Test Bank

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Chapter 1: An Overview of Information Security and Risk Management

TRUE/FALSE

1.	An asset can be log person, computer s				nation, or data; or an asset can be physical, such as a	
	ANS: T	PTS:	1	REF:	4	
2.	Intellectual propert	ty (IP) inc	ludes trade sec	erets, co	pyrights, trademarks, and patents.	
	ANS: T	PTS:	1	REF:	8	
3.	A Disaster Recove from an incident.	ry Plan (E	OR plan) deals	with ide	entifying, classifying, responding to, and recovering	
	ANS: F	PTS:	1	REF:	24	
4.	The vision of an or	ganizatio	n is a written s	tatemen	at of an organization's purpose.	
	ANS: F	PTS:	1	REF:	31	
5.	. An enterprise information security policy (EISP) addresses specific areas of technology and contains a statement on the organization's position on each specific area.					
	ANS: F	PTS:	1	REF:	31	
MUL	TIPLE CHOICE					
1.					s of information and has been the industry standard	
	for computer secur a. disaster recove		ne developme	nt of the c.		
	b. C.I.A. triangle	Ty pran			asset classification	
	ANS: B	PTS:	1	REF:	4	
2.			with the right		ivileges to access information are able to do so.	
	a. Confidentialityb. Availability	7			Integrity Risk assessment	
	ANS: A	PTS.	1	REF:		
	711(5. 71	115.	1	REI .	·	
3.			•		sposed (while being stored, processed, or	
	a. risk assessmen		amage, destruc		other disruption of their authentic states. integrity	
	b. availability				confidentiality	
	ANS: C	PTS:	1	REF:	4	
4.					rs - persons or computer systems - are able to access	
	them in the specific a. integrity	ed format	without interf		or obstruction. confidentiality	
	a. mognity				COMPRESENTATION	
	b. availability				risk assessment	

	ANS: B	PTS:	1	REF:	4
5.	a. payload	-	on, or other enti	c.	is a potential risk of loss to an asset. Trojan horse
	b. intellectual prope	erty		d.	threat
	ANS: D	PTS:	1	REF:	4
6.				n organ c.	onic and human activities in which an unauthorized dization is trying to protect. polymorphism denial-of-service
	ANS: B	PTS:	1	REF:	5
7.	resources or causing				s to services by either tying up a server's available
	a. Trojan horseb. DoS			c. d.	social engineering spyware
	ANS: B	PTS:	1	REF:	
8.		condu	ct terrorist activ		rough network or Internet pathways.
	a. Cyberterroristsb. Script kiddies			c. d.	Programmers Social engineers
	ANS: A	PTS:	1	REF:	-
	ANS: A	P13:	1	KEF:	9
9.	information technolo	gy and	-	s.	d assessing the security posture of an organization's
	a. Risk identificationb. Data classification				Security clearance DR
	ANS: A	PTS:	1	REF:	12
10.	anything in absolute	terms, i	t is useful in ga	uging t tive rati c.	tion asset. Although this number does not mean he relative risk to each vulnerable information asset ngs later in the risk control process. DR Avoidance
	ANS: B	PTS:	1	REF:	18
11.	(sometimes reference) exploitation of a vulra. Acceptance b. Transference			c.	sk control strategy that attempts to prevent the Defense Mitigation
	ANS: C	PTS:	1	REF:	21
12.	is a risk control organizations. a. Transference b. Mitigation	approa	ch that attempt	c.	ft the risk to other assets, other processes, or other Acceptance Avoidance
	ANS: A	PTS:	1	REF:	21

13.	is the risk cont vulnerability throug				educe the impact caused by the exploitation of		
	a. Avoidanceb. Transference	1		c.	Acceptance Mitigation		
	ANS: D	PTS:	1	REF:	22		
14.	potential exploitatio		do nothin		in information asset and to accept the outcome of its		
	a. Inheritanceb. Acceptance				Avoidance Mitigation		
	ANS: B	PTS:	1	REF:	22		
15.	A(n) is used to anticipate, react to, and recover from events that threaten the security of information and information assets in an organization; it is also used to restore the organization to normal modes of business operations;						
	a. threat planb. social plan				contingency plan security plan		
	ANS: C	PTS:	1	REF:	23		
16.	A(n) is an inveorganization. a. business impact				e impact that various attacks can have on the business continuity analysis (BCA)		
	b. incident respons				threat analysis		
	ANS: A	PTS:	1	REF:	23		
17.	A(n) is any cle the assets' confident a. trespass			r availability.	ganization's information assets that would threaten risk		
	b. Trojan horse				incident		
	ANS: D	PTS:	1	REF:	23-24		
18.	A deals with thea. mitigation planeb. disaster recover		ration for	c.	risk management risk assessment		
	ANS: B	PTS:	1	REF:	24		
19.		on while plan	e the orga	nization reco	vent of a disaster, critical business functions continue vers its ability to function at the primary site. incident response plan disaster recovery plan		
	ANS: B	PTS:	1	REF:	25		
20.	_			-	organization to convey instructions from its senior tions, and perform other duties on behalf of the		
	a. policyb. assessment				business continuity plan residual risk		

	ANS:	A	PTS:	1	REF:	30
21.	i	s the process o	f movir	ng an organizati	ion tow	ard its vision.
		curity planning ontingency plan				Strategic planning Enterprise information planning
			Ū	1		
	ANS:	C	PTS:	1	REF:	31
COM	PLETI	ON				
1.						ttee on National Security Systems (CNSS) as the
		tion of informansmit that info			ements,	including the systems and hardware that use, store,
	ANS:	Information se	ecurity			
	PTS:	1	REF:	3		
2.	impler	nentation, or ir	nternal (controls that co	uld be	or weakness in system security procedures, design, exercised (accidentally triggered or intentionally on of the system's security policy."
	ANS:	vulnerability				
	PTS:	1	REF:	4		
3.	data aı	nd information			pplying	g controls to reduce the risks to an organization's
	ANS:	Risk control				
	PTS:	1	REF:	12		
4.		ns and taking c	arefully		s to ensi	ing vulnerabilities in an organization's information are the confidentiality, integrity, and availability of on system.
	ANS:	Risk manager	nent			
	PTS:	1	REF:	13		
5.	the lik	elihood of a vu	ılnerabi	lity occurring t	imes th	e value (or impact) of that asset to the organization controlled plus an element of uncertainty.
	ANS:	risk				
	PTS:	1	REF:	19		
ИАТ	CHING	Ť				

N

Match each item with a statement below.

a. Threat agent

f. Risk management

- b. Exploit
- c. Hacker
- d. Virus

- g. Likelihood
- h. Residual risk
- i. Standard

- e. Trojan horse
- 1. A specific and identifiable instance of a general threat
- 2. A detailed statement of what must be done to comply with policy
- 3. A person who bypasses legitimate controls on an information system to gain access illegally
- 4. Something that looks like a desirable program or tool, but that is in fact a malicious entity
- 5. The probability that a specific vulnerability within an organization will be successfully attacked
- 6. The risk that remains to an information asset even after an existing control has been applied
- 7. A means to target a specific vulnerability
- 8. The process used to identify and then control risks to an organization's information assets
- 9. A segment of code that performs malicious actions

1.	ANS:	A	PTS:	1	REF:	4
2.	ANS:	I	PTS:	1	REF:	30
3.	ANS:	C	PTS:	1	REF:	6
4.	ANS:	E	PTS:	1	REF:	7
5.	ANS:	G	PTS:	1	REF:	18
6.	ANS:	H	PTS:	1	REF:	20
7.	ANS:	В	PTS:	1	REF:	5
8.	ANS:	F	PTS:	1	REF:	12
9.	ANS:	D	PTS:	1	REF:	6

SHORT ANSWER

1. What is a polymorphic threat?

ANS:

A polymorphic threat is one that changes its apparent shape over time, making it undetectable by techniques that look for preconfigured signatures. These viruses and worms actually evolve, changing their size and appearance to elude detection by antivirus software programs. This means that an e-mail generated by the virus may not match previous examples, making detection more of a challenge.

PTS: 1 REF: 7

2. During an information asset valuation, what questions should be asked as each asset is assigned to a category?

ANS:

As each asset is assigned to a category, the following questions should be asked:

- Is this asset the most critical to the organization's success?
- Does it generate the most revenue?
- Does it generate the most profit?
- Would it be the most expensive to replace?
- Will it be the most expensive to protect?
- If revealed, would it cause the most embarrassment or greatest damage? Does the law or other regulation require us to protect this asset?

	PTS: 1 REF: 15
3.	Once the project team for information security development has created a ranked vulnerability worksheet, it must choose one of five approaches for controlling the risks that result from the vulnerabilities. List the five approaches.
	ANS:
	The five approaches are:
	• Defense
	• Transferal
	 Mitigation
	Acceptance
	• Termination

PTS: 1 REF: 21

4. Of the five major risk control strategies discussed in this chapter, which is the preferred strategy when it can be applied? Give some examples of techniques used in this approach.

ANS:

The defense approach attempts to prevent the exploitation of a vulnerability. This is the preferred approach and is accomplished by means of countering threats, removing vulnerabilities in assets, limiting access to assets, and adding protective safeguards.

PTS: 1 REF: 21

5. Describe the transference approach to risk control and give three specific examples of risk transfer.

ANS:

The risk transference approach attempts to shift the risk to other assets, other processes, or other organizations. This may be accomplished through rethinking how services are offered, revising deployment models, outsourcing to other organizations, purchasing insurance, or implementing service contracts with providers.

PTS: 1 REF: 21

6. What are the typical subordinate functions of contingency planning?

ANS:

Contingency planning typically involves four subordinate functions:

- Business impact analysis (BIA)
- •Incident response planning (IRP)
- •Disaster recovery planning (DRP)
- •Business continuity planning (BCP)

PTS: 1 REF: 23

7. Provide a brief summary of the three main steps involved in contingency planning.

ANS:

- 1. The IR plan focuses on immediate response, but if the event escalates or is disastrous (such as a fire, flood, earthquake, or total blackout), the process moves on to disaster recovery and business continuity.
- 2. The DR plan typically focuses on restoring systems at the original site after disasters occur and, as such, is closely associated with the BC plan.
- 3. The BC occurs concurrently with DR plan when the damage is major or long term, requiring more than simple restoration of information and information resources. The BCP establishes critical business functions at an alternate site.

PTS: 1 REF: 25

8. How is a business continuity (BC) plan different than a disaster recovery (DR) plan?

ANS:

A disaster recovery (DR) plan typically focuses on restoring systems at the original site after disasters occur and, as such, is closely associated with the business continuity (BC) plan. The BC plan occurs concurrently with the DR plan with the damage is major or long term, requiring more than simple restoration of information and information resources. The BC plan establishes critical business functions at an alternate site.

PTS: 1 REF: 25

9. Provide brief descriptions for access control lists (ACLs) and configuration rules.

ANS:

Access control lists (ACLs): Lists, matrices, and capability tables governing the rights and privileges of particular users to a particular systems.

Configuration rules: The specific configuration codes entered into security systems to guide the execution of the system when information is passing through it.

PTS: 1 REF: 33

10. What are five key elements that a security policy should have in order to remain viable over time?

ANS:

- An individual (such as a policy administrator) responsible for the creation, revision, distribution, and storage of the policy; this individual should solicit input from all communities of interest in policy development
- A schedule of reviews to ensure currency and accuracy, and to demonstrate due diligence
- A mechanism by which individuals can comfortably make recommendations for revisions, preferably anonymously
- A policy and revision date and possibly a "sunset" expiration date
- Optionally, policy management software to streamline the steps of writing the policy, tracking the workflow of policy approvals, publishing the policy once it is written and approved, and tracking when individuals have read the policy

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