## SECURE SOFTWARE DEVELOPMENT A SECURITY PROGRAMMER'S GUIDE

## **Chapter 2: Coding in the SDLC: Not a Solitary Practice**

## TRUE/FALSE

1.	A secure software development process includes 3 main ingredients. They are: SDLC in the industry SDLC in the organization SDLC in the cube					
	ANS:	Т	PTS:	1	REF:	32
2.		ftware life cycl ementation.	les are t	he various acti	vities, o	or phases, that software goes through from concept
	ANS:	F	PTS:	1	REF:	33
3.	. CMMI defines how effective organizations are at following a formal development process by classifying the organization into maturity levels.					
	ANS:	T	PTS:	1	REF:	35
4.		re methodolog the production	•		procedu	ares and rules that can be performed only once
	ANS:	F	PTS:	1	REF:	35
5.	Tradition Waterf Iterativ Spiral	all	ogies in	clude the follo	wing:	
	ANS:	T	PTS:	1	REF:	36
6.		nterfall method ne to the next i		•	lop sof	tware following through each phase of the life cycle
	ANS:	F	PTS:	1	REF:	37
7.	The ite comple		ology is	great for mode	erate to	large applications with varying degrees of
	ANS:	T	PTS:	1	REF:	38
8.		d by Barry Boe ate risk.	hm, the	e Spiral Method	dology	was created for projects considered to be of low to
	ANS:	F	PTS:	1	REF:	40
9.	Team S	Software Proce	ss (TSF	P) is an example	e of an	advanced methodology.
	ANS:	T	PTS:	1	REF:	41

10.	TSP and PSP are methodologies that do not work well with CMMI.					
	ANS: F	PTS:	1	REF:	42	
11.	Agile software devel	opment	is a conceptual	l frame	work for undertaking software engineering projects.	
	ANS: T	PTS:	1	REF:	43	
12.	Extreme Programmin	ng (XP)	is an example	of an aş	gile development process.	
	ANS: T	PTS:	1	REF:	43	
13.	XP produces a lot of	docum	entation.			
	ANS: F	PTS:	1	REF:	43	
14.	Touchpoints are active SDLC.	vities th	at the developn	nent tea	um needs to do during a particular phase of the	
	ANS: T	PTS:	1	REF:	44	
15.	A Hybrid Methodolo	gy requ	ires a developr	nent tea	am to stick to only one process or standard.	
	ANS: F	PTS:	1	REF:	45	
16.	All development met	thodolo	gies share one o	commo	n element: people.	
	ANS: T	PTS:	1	REF:	46	
17.	If you want to impro	ve the S	SDLC on your t	eam, le	arn how to work independently.	
	ANS: F	PTS:	1	REF:	46	
18.	An effective Project Manager has good people skills, communication skills, and interpersonal skills.					
	ANS: T	PTS:	1	REF:	48	
19.	It is not the job of the	e PM to	define roles an	d respo	onsibilities.	
	ANS: F	PTS:	1	REF:	49	
20.	Anyone on the team	can assi	ign duties.			
	ANS: F	PTS:	1	REF:	50	
21.	Cliques and office po	olitics sl	nould be avoide	ed wher	n on a team.	
	ANS: T	PTS:	1	REF:	50	
22.	C.I.A. stands for the	3 main	principles in se	cure co	de: Confidentiality, integrity, and availability.	
	ANS: T	PTS:	1	REF:	51	
23	Δ Framework is a nr	ncess n	r structure with	no set	definition	

	ANS: F	PTS:	1	REF:	51				
24.	24. PMP is a type of methodology.								
	ANS: F	PTS:	1	REF:	52				
25.	Coding and testing an	e cycle.							
	ANS: T	PTS:	1	REF:	52				
MULTIPLE CHOICE									
	Sharing sensitive information between applications has made writing code more of an orchestrated								
1.	event than a practice.								
	<ul><li>a. Group</li><li>b. Solitary</li></ul>				Team Lonely				
	•	DEG			•				
	ANS: B	PTS:	1	REF:	32				
2.	What are various activities, or phases, that software goes through from concept to retirement?								
	<ul><li>a. Software develop</li><li>b. Software constru</li></ul>				Methodologies Software life cycles				
					·				
	ANS: D	PTS:	1	REF:	33				
3.	Which standard is the standard of all standards regarding software development?								
	a. CMMI				IEEE 1506				
	b. ISO 12207				SEI				
	ANS: B	PTS:	1	REF:	33				
4.	This standard is part of Carnegie Mellon University, defines standards with government organizations,								
		emia to	improve the so		development process.				
	<ul><li>a. CMMI</li><li>b. IEEE 12207</li></ul>				NIST ISO				
	ANS: A	PTS:	1	REF:					
5	What is a set of moth	ada mm	and man and m	ulas the	t can be unnectedly comied out to muchuse software?				
5.	a. Standards	ous, pro	ocedures, and r		at can be repeatedly carried out to produce software? Software methodology				
	b. Software testing				Software development				
	ANS: C	PTS:	1	REF:	35				
6.	Which process is not	part of	the IEEE 1220	7?					
	a. Primary			c.	Development				
	b. Organizational			d.	Supportive				
	ANS: C	PTS:	1	REF:	34				
7.	Why is following a n	nethodo	logy important	?					
	a. Produces consiste	ency		c.	Produces security				
	b. Produces reliabil	ıty		d.	Produces quality				

	ANS: A	PTS:	1	REF:	36		
8.	3. Which of the following is not considered to be a Traditional methodology?						
	a. Waterfall				Spiral		
	b. Iterative			d.	Agile		
	ANS: D	PTS:	1	REF:	36		
9.	This methodology is a way to develop software following through each phase of the life cycle from to the next in a very sequential manner.						
	<ul><li>a. Spiral</li><li>b. Waterfall</li></ul>			c. d.	Agile TSP		
	ANS: B	PTS:	1	REF:	37		
10.	This methodology al time.	lows the	e users and dev	elopers	more time to focus on building one requirement at a		
	<ul><li>a. TSP</li><li>b. Agile</li></ul>			c. d.	Spiral Iterative		
	ANS: D	PTS:	1	REF:	38		
11.	This methodology al of risk is acceptable.		e users and dev	elopers	to proceed to build the requirement only if the level		
	<ul><li>a. Spiral</li><li>b. Iterative</li></ul>			c. d.	Agile TSP		
	ANS: A	PTS:	1	REF:	40		
12. This methodology is based on 13 stages of activities that are primarily focused on building security the development process.							
	<ul><li>a. Agile</li><li>b. Spiral</li></ul>			c. d.	, i		
	ANS: C	PTS:	1	REF:	41		
13.	13. This methodology provides frameworks, a set of processes, and methods for producing quality and security principles in software.						
	<ul><li>a. Security Develop</li><li>b. TSP</li></ul>				Agile Touchpoints		
	ANS: B	PTS:	1	REF:	42		
14. This methodology allows a very fluid communication stream with end users and uses the produce software as a measure of progress.					ion stream with end users and uses the produced		
	<ul><li>a. Security Develop</li><li>b. TSP</li></ul>	pment L	ifecycle		Agile Touchpoints		
	ANS: C	PTS:	1	REF:	43		
15.	software life cycle.	rictly w	orks in security	design	, principles, and features in each phase of the		
	<ul><li>a. Touchpoints</li><li>b. Agile</li></ul>			c. d.	TSP Iterative		
	ANS: A	PTS:	1	REF:	44		

16.	This methodology all team produces syners a. Agile b. Hybrid		_		start off very formal but lessens as the development lexperience. TSP Touchpoints		
	ANS: B	PTS:	1	REF:	45		
17.	What one thing does <ul><li>a. Detailed requirer</li><li>b. People</li></ul>	nents		c. d.	Sound design Quality code		
	ANS: B	PTS:	1	REF:	46		
18.	<ul> <li>Why is active listening <i>such</i> an important part in the job of software development?</li> <li>a. One must be able to convey meaning</li> <li>b. One must be able to write emails and requirements</li> <li>c. One must be able to draw</li> <li>d. One must be able to paraphrase and summarize someone else's thoughts and ideas</li> </ul>						
	ANS: D	PTS:	1	REF:	46		
19.	This person is respondesigned and develop a. Tester b. Developer			break t	stem's requirements and how the system was he software. Business Analyst Project Manager		
	ANS: A	PTS:	1	REF:	48		
20.	This person is responda. Project Manager b. Tester	sible fo	r knowing the	c.	s rules and customer requirements. Business Analyst Developer		
	ANS: C	PTS:	1	REF:	48		
21.	This person is respondance. Developer b. Tester  ANS: A	nsible fo	-	c.	ogy, requirements, and application design. Project Manager Business Analyst 48		
22.	This person is responded and how to break the a. Developer b. Tester		•	security c. d.			
	ANS: B	PTS:	1	REF:	48		
23.	What is the key ingrea. Know the prograb. Know who your	mming	language	software c. d.	Know who the boss is		
	ANS: D	PTS:	1	REF:	49		
24.	What is the most con a. They are assume			nanage	rs make with roles and responsibilities?		

b. Hand them out too early

c. Define them too well

d. Make sure no one does more than they are supposed to.

ANS: A PTS: 1 REF: 49

## MULTIPLE RESPONSE

1. What are some pitfalls to avoid while working as a team?

a. Cliques c. Politics

b. Hobbies d. Lunches

ANS: A, C PTS: 1 REF: 50