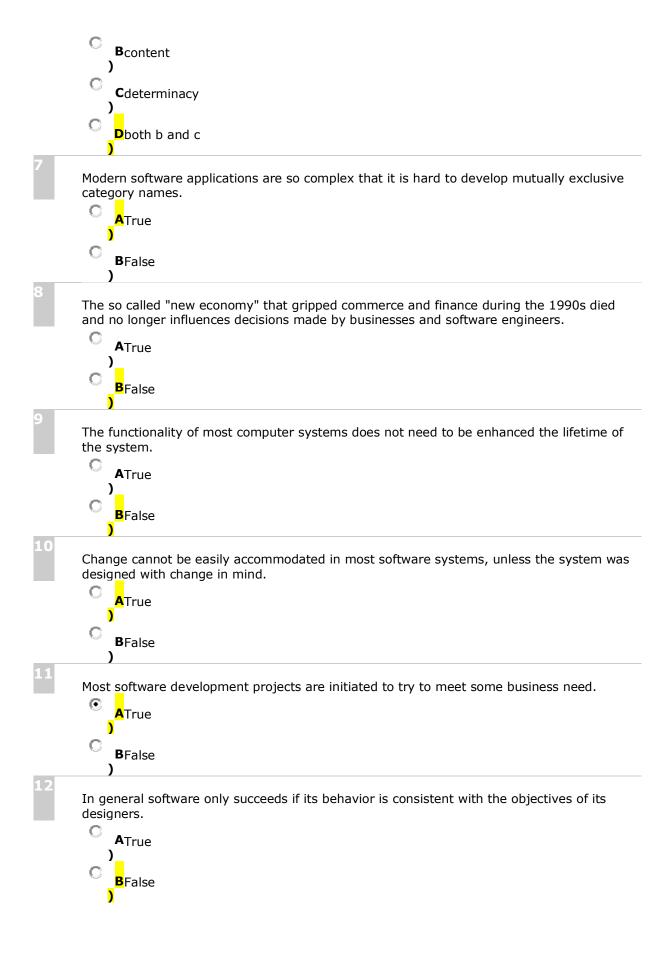
Which question no longer concerns the modern software engineer? AWhy does computer hardware cost so much? **B**Why does software take a long time to finish? CWhy does it cost so much to develop a piece of software? **D**Why can't software errors be removed from products prior to delivery? Today the increased power of the personal computer has brought about an abandonment of the practice of team development of software. **B**False Software is a product and can be manufactured using the same technologies used for other engineering artifacts. **B**False Software deteriorates rather than wears out because ASoftware suffers from exposure to hostile environments **B**Defects are more likely to arise after software has been used often CMultiple change requests introduce errors in component interactions **D**Software spare parts become harder to order Most software continues to be custom built because **A**Component reuse is common in the software world. **B**Reusable components are too expensive to use. **C**Software is easier to build without using someone else's components. DOff-the-shelf software components are unavailable in many application domains. The nature of software applications can be characterized by their information **A**complexity



4	Walana and a mintrus of anist multiplies and activities development making
CORRECT	WebApps are a mixture of print publishing and software development, making their development outside the realm of software engineering practice.
	C A) True
~	C B) False
	Feedback: (Section 1.2)
5 CORRECT	There are no real differences between creating WebApps and MobileApps.
	C A) True
✓	C B) False
	Feedback: (Section 1.2)
CORRECT	In its simplest form an external computing device may access cloud data services using a web browser. True
•	
	B) False Feedback: (Section 1.2)
7	
CORRECT	Product line software development depends the reuse of existing software components to provide software engineering leverage.
✓	C A) True
	C B) False
	5 ,
the correct pro-	was for each guestion is indicated by a v
the correct ans	wer for each question is indicated by a \checkmark .
the correct anso	wer for each question is indicated by a 🗸. Which of the items listed below is not one of the software engineering layers?
1	
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CORRECT CORRECT 3	Which of the items listed below is not one of the software engineering layers? A) Process B) Manufacturing C) Methods C) Tools Feedback: (Section 2.1) Software engineering umbrella activities are only applied during the initial phases of software development projects. A) True B) False Feedback: (Section 2.2) Which of these are the 5 generic software engineering framework activities? C) A) communication, planning, modeling, construction, deployment

	Feedback: (Section 2.2)
4 CORRECT	Planning ahead for software reuse reduces the cost and increases the value of the systems into which they are incorporated. True
	- A)
	B) False
5	Feedback: (Section 2.3)
CORRECT	The essence of software engineering practice might be described as understand the problem, plan a solution, carry out the plan, and examine the result for accuracy.
,	✓ C A) True
	C B) False
	Feedback: (Section 2.3)
6 CORRECT	In agile process models the only deliverable work product is the working program.
	C A) True
,	✓ C B) False
	Feedback: (Section 2.4)
7 CORRECT	A most software development projects are initiated to try to meet some business need.
,	✓ C A) True
	C B) False
	Feedback: (Section 1.7)
1. What fa	actor has precipitated more sophisticated and complex computer- stems?
0	a. Vast increases in computer memory and storage capacity.
0	b. Greater variety of exotic input/output options.
C	
	c. Profound changes in computer architectures.
•	d. All of the above.
mutually of	n software applications are so complex that it is hard to develop exclusive category names.
C	a. <mark>True</mark>
0	b. False

9. The current software crisis was caused by the Y2K problem whose seeds were first sown by careless programmers in the early 1970's. a. True b. False
10. Software developers succeed more often than they fail, but software failures receive more press coverage. Carrow a. True b. False
11. Adding more people to a project that is already behind schedule is a good way to catch up. a. True b. False
12. Modern CASE tools are more important than the newest hardware for achieving good software quality and productivity. a. True b. False
14. A general statement of objectives is all that is needed to begin developing a piece of software. C a. True D. False
15. The formal technical review is an inadequate substitute for testing regardless of nature of the software defect. a. True b. False

16. Documentation is no longer a necessary part of the software development process because no one reads it.

a. True

^O b. False

1 CORRECT	Which of the following are recognized process flow types?
	C A) Concurrent process flow
	C B) Iterative process flow
	C c) Linear process flow
	Spiral process flow
,	/ C E) both b and c
•	Feedback: (Section 3.1)
2 CORRECT	The communication activity is best handled for small projects using six distinct actions (inception, elicitation, elaboration, negotiation, specification, validation).
	C A) True
`	/ C B) False
	Feedback: (Section 3.2)
3 CORRECT	A good software development team always uses the same task set for every project to insure high quality work products
	A) True
`	/ C B) False
4	Feedback: (Section 3.3)
CORRECT	Software processes can be constructed out of pre-existing software patterns to best meet the needs of a software project.
`	A) True
	C B) False
5	Feedback: (Section 3.4)
CORRECT	Which of these are standards for assessing software processes?
	C A) SEI
	C B) SPICE
	C c) ISO 9000
	O D) ISO 9001
_	/ C E) both b and d
	Feedback: (Section 3.5)
1	
1 CORRECT	The waterfall model of software development is
\	A) A reasonable approach when requirements are well defined.
	\circ B) A good approach when a working program is required quickly.

C) The best approach to use for projects with large development teams.

	O D) An old fashioned model that is rarely used any more.
2	Feedback: (Section 4.1.1)
2 CORRECT	The incremental model of software development is
	A) A reasonable approach when requirements are well defined.
✓	B) A good approach when a working core product is required quickly.
	igcirc The best approach to use for projects with large development teams.
	O A revolutionary model that is not used for commercial products.
3	Feedback: (Section 4.1.2)
CORRECT	Evolutionary software process models
	A) Are iterative in nature.
	Can easily accommodate product requirements changes.
	C) Do not generally produce throwaway systems.
✓	O D) All of the above.
1	Feedback: (Section 4.1.3)
CORRECT	The prototyping model of software development is
	A) A reasonable approach when requirements are well defined.
✓	B) A useful approach when a customer cannot define requirements clearly.
	igcirc The best approach to use for projects with large development teams.
	A risky model that rarely produces a meaningful product.
5	Feedback: (Section 4.1.3)
CORRECT	The spiral model of software development
	C A) Ends with the delivery of the software product.
	B) Is more chaotic than the incremental model.
✓	$^{ extsf{C}}$ Includes project risks evaluation during each iteration.
	O All of the above.
6	Feedback: (Section 4.1.3)
CORRECT	The concurrent development model is
	Another name for concurrent engineering.
	lacksquare Defines events that trigger engineering activity state transitions.
	Only used for development of parallel or distributed systems.
	O D) Used whenever a large number of change requests are anticipated.
~	C E) Both a and b
7	Feedback: (Section 4.1.4)
CORRECT	The component-based development model is
	Only appropriate for computer hardware design.
	O B) Not able to support the development of reusable components.

~	C Dependent on object technologies for support.
•	Not cost effective by known quantifiable software metrics.
	Feedback: (Section 4.2.1)
8 CORRECT	The formal methods model of software development makes use of mathematical
CORRECT	methods to
	igcirc Define the specification for computer-based systems.
	Develop defect free computer-based systems.
	C) Verify the correctness of computer-based systems.
✓	O All of the above.
0	Feedback: (Section 4.2.2)
CORRECT	Which of these is not one of the phase names defined by the Unified Process model for software development?
	C A) Inception phase
	C B) Elaboration phase
	C Construction phase
✓	C D) Validation phase
10	Feedback: (Section 4.3.2)
10 CORRECT	Which of these is not a characteristic of Personal Software Process?
	C A) Emphasizes personal measurement of work product.
✓	Practitioner requires careful supervision by the project manager.
	C c) Individual practitioner is responsible for estimating and scheduling.
	Practitioner is empowered to control quality of software work products.
	Feedback: (Section 4.4.1)
11 CORRECT	Which of these are objectives of Team Software Process?
	C A) Accelerate software process improvement
	C B) Allow better time management by highly trained professionals
	C Build self-directed software teams
	Show managers how to reduce costs and sustain quality
✓	C Both b and c
	Feedback: (Section 4.4.2)
12 CORRECT	Process technology tools allow software organizations to compress schedules by skipping unimportant activities.
	A) True
✓	C B) False
13	Feedback: (Section 4.5)
CORRECT	It is generally accepted that one cannot have weak software processes and create high quality end products.
V	C A) True

			C Feed	B) back	False c: (Section 4.6)
ЕСТ	Proces	s mode	els are	desc	cribed as agile because they
	CA) elim	inate th	ne ne	eed for cumbersome documentation
~	C B	emp	hasize	man	neuverability and adaptability
	C c) do n	ot was	te de	evelopment time on planning activities
	C D) mak	e exter	ısive	e use of prototype creation
	Feedbad	ćk:			
ЕСТ	Which	of the	se term	ıs ar	e level names in the Capability Maturity Model?
	O A	Perf	ormed		
	O B	,	eated		
	O c	, D	sed		
	O D	·	mized		
~	C E	-	a and	d	
	Feedbac	ck:			
	1		Tho	line	par cognential model of coftware development is
	CORRE				ear sequential model of software development is
		•	0	-	A reasonable approach when requirements are well defined.
			0	B)	A good approach when a working program is required quickly.
			0	C)	The best approach to use for projects with large development teams.
			Feed	D) bacŀ	An old fashioned model that cannot be used in a modern context.
	2				
	CORRE	СТ	The	line	ear sequential model of software development is also known as the
				A)	Classical life cycle model
			0	B)	Fountain model
			0	C)	Spiral model
			C	D)	Waterfall model
		~	C	_,	both a and d
			Feedl	back	(:
	4 CORRE	СТ	The	rap	id application development model is
	GURRE		C	A)	Another name for component-based development.
			0	B)	A useful approach when a customer cannot define requirements clearly.
		~	0	- ,	A high speed adaptation of the linear sequential model.
		-		c)	·

		O All of the above.
		Feedback:
7 CORREC		The spiral model of software development
CORREC		C A) Ends with the delivery of the software product
		O B) Is more chaotic than the incremental model
	V	C C) Includes project risks evaluation during each iteration
		C D) All of the above
		Feedback:
3 CORREC ⁻		The concurrent development model is
CORREC		Another name for the rapid application development model.
	V	Often used for the development of client/server applications.
		Only used for development of parallel or distributed systems.
		Used whenever a large number of change requests are anticipated.
		Feedback:
12		In the Unified Process model requirements are determined iteratively and may
CORREC	١,	span more than one phase of the process.
	V	A) True
		B) False Feedback:
2. What	are	the three generic phases of software engineering?
0		definition, development, support
0		what, how, where
C		programming, debugging, maintenance
C		analysis, design, testing
	u.	analysis, acsign, testing
3. Which	n of	these terms is a level name in the Capability Maturity Model?
C		Ad hoc
0		Repeatable
O		Reusable
0		Organized
	٦.	J. 35=05

4. Which framework	of these items should be used to select a software process rk? a. People b. Product c. Project d. All of the above
5. In which	
0	a. Status quo b. Problem definition
C	c. Technical development
0	d. Solution integration
	are development activities are easy to compartmentalize into four lapping phases? a. True b. False
8. The lir	near sequential model of software development is also known as
C	a. Classical life cycle model
0	b. Fountain model
C	c. Spiral model
C	d. Chaos model
10. The r	apid application development model is a. Another name for component-based development. b. A useful approach when a customer cannot define

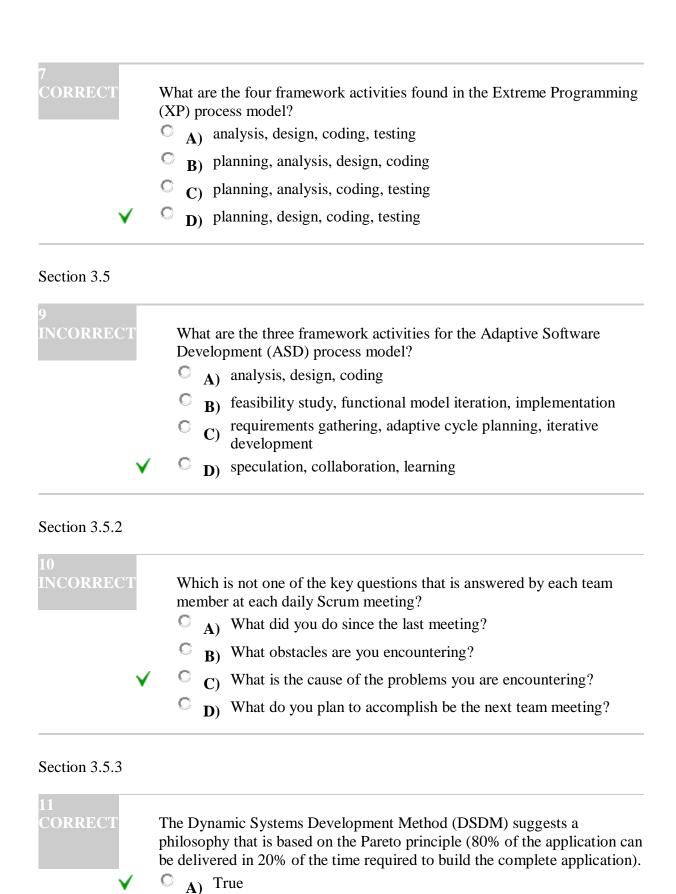
requirements clearly.
c. A high speed adaptation of the linear sequential model.
C d. All of the above.
14. The WINWIN spiral model of software development is
a. A used when requirements must be defined by customer
negotiation. C b Lleeful when a quetomer is able to provide requirements
 b. Useful when a customer is able to provide requirements completely.
c. The best approach to use for projects with large development
teams.
d. Like the spiral model without the risk assessment step.
15. The concurrent development model is
15. The concurrent development model is
a. Another name for the rapid application development model.
b. Often used for the development of client/server applications.
c. Only used for development of parallel or distributed systems.
d. Used whenever a large number of change requests are
anticipated.
18. Fourth generation techniques
a. Allow software to be developed without any testing.
b. Eliminate the need for costly requirements gathering activities.
c. Can reduce the time required to develop software.
d. Are best used by non-programmers to build small systems.

1 INCORRECT		Agility is nothing more than the ability of a project team to respond rapidly to change.
		C A) True
	\checkmark	C B) False
2 CORRECT		Which of the following is not necessary to apply agility to a software process?
	\checkmark	C A) Eliminate the use of project planning and testing
		Only essential work products are produced
		C Process allows team to streamline tasks
		Uses incremental product delivery strategy
	Feed	back: (Section 5.1)
3 CORRECT		
		How do you create agile processes to manage unpredictability? A) Requirements gathering must be conducted very carefully
		C B) Risk analysis must be conducted before planning takes place
		Software increments must be delivered in short time periods
		Software processes must adapt to changes incrementally
	V	Both c and d
	Feed	back: (Section 5.2)
4 CORRECT		
		In agile software processes the highest priorities is to satisfy the customer through early and continuous delivery of valuable software.
	\checkmark	C A) True
		C B) False
	Feed	back: (Section 5.3)
5 CORRECT		
		In agile development it is more important to build software that meets the customers' needs today than worry about features that might be needed in the future.
	V	C A) True
		C B) False
	Feed	back: (Section 5.3.2)
6		
INCORRECT	1	What are the four framework activities found in the Extreme Programming (XP) process model?
		(C) A) analysis, design, coding, testing
		B) planning, analysis, design, coding
		C planning, analysis, coding, testing
	V	C D) planning, design, coding, testing

7	
INCORRECT	All agile process models conform to a greater or lesser degree to the
	principles stated in the "Manifesto for Agile Software Development". C A) True
•	,
9 CORRECT	C B) False
V CORRECT	The Dynamic Systems Development Method (DSDM) suggests a philosophy that is based on the Pareto principle (80% of the application can be delivered in 20% of the time required to build the complete application). C A) True
•	C B) False
Fe	eedback: (Section 5.5.2)
10	educien (Section Sister)
INCORRECT	Agile Modeling (AM) provides guidance to practitioner during which of these software tasks?
	C A) Analysis
	C B) Design
	C C) Coding
	C D) Testing
~	C E) Both a and b
11 CORRECT	Agile Unified Process uses the classic UP phased activities (inception, elaboration, construction, transition) to help the team visualize the
	overall process flow.
✓	C A) True
	C B) False
5 CORRECT	Which of the following traits need to exist among the members of an agile software team?
	C A) Competence
	C B) Decision-making ability

C Mutual trust and respect

All of the above



B) False



In Feature Driven Development (FDD) a client-valued feature is a client-valued function that can be delivered in two weeks or less.

C A) True

/ (

B) False

Section 3.5.7

13 CORRECT

Agile Modeling (AM) provides guidance to practitioner during which of these software tasks?

C A) Analysis

OB) Design

C C) Coding

O D) Testing

 \checkmark

E) both a and b

Section 3.5.8

14 CORRECT

Agile Unified Process uses the classic UP phased activities (inception, elaboration, construction, transition) to help the team visualize the overall process flow.

A) True



B) False

1 CORRECT	Software engineering principles have about a three year half-life.
	C A) True
V	False
	Feedback: (Section 7.1)
2 CORRECT	Which of the following is not one of core principles of software engineering practice?
	A) All design should be as simple as possible, but no simpler.
	A software system exists only to provide value to its users.
V	Pareto principle (20% of any product requires 80% of the effort).
	Remember that you produce others will consume
	Feedback: (Section 7.2)
CORRECT	Every communication activity should have a facilitator to make sure that the customer is not allowed to dominate the proceedings.
	A) True
٧	(B) False
4	Feedback: (Section 7.3.1)
CORRECT	The agile view of iterative customer communication and collaboration is applicable to all software engineering practice.
٧	A) True
	C B) False
E .	Feedback: (Section 7.3.1)
CORRECT	One reason to involve everyone on the software team in the planning activity is to
	igcap $_{f A)}$ adjust the granularity of the plan
	B) control feature creep
٧	C) get all team members to "sign up" to the plan
	C D) understand the problem scope
6	Feedback: (Section 7.3.2)
6 CORRECT	Project plans should not be changed once they are adopted by a team.
	C A) True
٧	(B) False
-	Feedback: (Section 7.3.2)
/ CORRECT	Requirements models depict software in which three domains?
	A) architecture, interface, component
	C B) cost, risk, schedule
٧	C) information, function, behavior
	None of the above
0	Feedback: (Section 7.3.3)
8	

C A) True C B) False Feedback: (Section 7.3.3) Teams using agile software practices do not generally create models. C A) True C B) False Feedback: (Section 7.3.3) Which of the following is not one of the principles of good coding? C A) Create unit tests before you begin coding C B) Create unit tests before you begin coding C C) Refractor the code after you complete the first coding pass C D) Write self-documenting code, not program documentation Feedback: (Section 7.3.4) A successful test I ones that discovers at least one as-yet undiscovered error. C A) True C B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? C A) Allows developers to make changes to the delivered increment C B) Delivery schedule can be revised to reflect changes C C) Developers can identify changes to incorporate into next increment C D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. C A) True C B) False Feedback: (Section 7.3.5)	CORRECT	The design model should be traceable to the requirements model?
Teams using agile software practices do not generally create models. C A) True V B) False Feedback: (Section 7.3.3) Which of the following is not one of the principles of good coding? C A) Create unit tests before you begin coding C B) Create unit tests before you begin coding C C) Refractor the code after you complete the first coding pass V D) Write self-documenting code, not program documentation Feedback: (Section 7.3.4) A successful test I ones that discovers at least one as-yet undiscovered error. A) True B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)	✓	C A) True
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Which of the following is not one of the principles of good coding? C A) Create unit tests before you begin coding C B) Create unit tests before you begin coding C C) Refractor the code after you complete the first coding pass C D) Write self-documenting code, not program documentation Feedback: (Section 7.3.4) A successful test I ones that discovers at least one as-yet undiscovered error. C A) True B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? C A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment C D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. C A) True B) False Feedback: (Section 7.4)		b)
C Refractor the code after you complete the first coding pass C D Write self-documenting code, not program documentation Feedback: (Section 7.3.4) A successful test I ones that discovers at least one as-yet undiscovered error. A) True B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)		Which of the following is not one of the principles of good coding?
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Feedback: (Section 7.3.4) A successful test I ones that discovers at least one as-yet undiscovered error. A) True B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)		Refractor the code after you complete the first coding pass
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C A) True B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment C) D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. C) A) True C) B) False Feedback: (Section 7.4)		-,
B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)	11 CORRECT	A successful test I ones that discovers at least one as-yet undiscovered error.
B) False Feedback: (Section 7.3.4) Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)	✓	C A) True
Which of the following are valid reasons for collecting customer feedback concerning delivered software? A) Allows developers to make changes to the delivered increment B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)		
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B) Delivery schedule can be revised to reflect changes C) Developers can identify changes to incorporate into next increment D) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)		C Allows development to real or absorbed to the delicered to recent
C) Developers can identify changes to incorporate into next increment O) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. O) True O) B) False Feedback: (Section 7.4)		A) 7 mone developers to make changes to the delivered increment
A) True B) False Feedback: (Section 7.4) All of the above Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True Feedback: (Section 7.4)		
Feedback: (Section 7.3.5) Larger programming teams are always more productive than smaller teams. A) True B) False Feedback: (Section 7.4)	,	
Larger programming teams are always more productive than smaller teams. C A) True False Feedback: (Section 7.4)	V	O)
A) True A) False Feedback: (Section 7.4)	13	Feedback: (Section 7.3.5)
B) False Feedback: (Section 7.4)	CORRECT	Larger programming teams are always more productive than smaller teams.
Feedback: (Section 7.4)		C A) True
Feedback: (Section 7.4)	~	C B) False
5 CORRECT		
	5 CORRECT	Coffusion anginous collaborate with quaternous to define which of the
Software engineers collaborate with customers to define which of the following?		
Customer visible usage scenarios		Customer visible usage scenarios

C B) Important software features
C C) System inputs and outputs

	V	C D) All of the above
7 INCORREC [*]		What role(s) do user stories play in agile planning?
INCORREC	ш	C Define weef to the control of the
		A)
		B)
	<i></i>	
	•	C hoth a and d
8 CORRECT		E) Doth a and d
		Which of the following activities is not one of the four things that need to be accomplished by the generic planning task set?
		O A) Develop overall project strategy
		(a) Identify the functionality to deliver in each software increment
	\checkmark	Create a detailed schedule for the complete software project
		Devise a means of tracking progress on a regular basis
10		The customer can directly observe both the difference between the internal
CORRECT		quality of a design and its external quality?
		A) True
	Y	B) False
12 INCORREC	Т	Many of the tasks from the generic task sets for analysis modeling and design can be conducted in parallel with one another.
	~	C A) True
		C B) False
14		<u> </u>
CORRECT		A successful test is one that discovers at least one as-yet undiscovered error.
	•	A) True
15		B) False
CORRECT		Which of the following are tasks in the generic task set for construction?
		Build a software component
		C B) Create a user interface
		C C) Unit test the component
		C Assess the quality of the component
	V	C E) both a and c
16 CORRECT		Which of the following are valid reasons for collecting customer feedback concerning delivered software?
	_	A) Allows developers to make changes to the delivered increment
		Delivery schedule can be revised to reflect changes

C C) Developers can identify changes to incorporate into next increment

All of the above

1 CODDECT	
1 CORRECT	Requirements engineering is a generic process that does not vary from one software project to another.
✓	C A) True
	C B) False
	eedback: (Section 8.1)
2 CORRECT	During project inception the intent of the of the tasks are to determine
	C A) basic problem understanding
	C B) nature of the solution needed
	C c) people who want a solution
	O none of the above
✓	C _{E)} a, b, c
	eedback: (Section 8.1)
3 CORRECT	Three things that make requirements elicitation difficult are problems of
	© A) budgeting
	~,
	B) scope C c) understanding
	C volatility
¥	E) b, c, d eedback: (Section 8.1)
4 CORRECT	eeuback. (Section 6.1)
+ CORRECT	A stakeholder is anyone who will purchase the completed software system under development.
	C A) True
✓	C B) False
Fe	eedback: (Section 8.2.1)
5 CORRECT	It is relatively common for different customers to propose conflicting requirements, each arguing that his or her version is the right one.
✓	C A) True
	C B) False
Fe	eedback: (Section 8.2.2)
6 CORRECT	Which of the following is not one of the context-free questions that would be
	used during project inception?
	What will be the economic benefit from a good solution?
	C B) Who is behind the request for work?
√	Miles will never four the average 2
•	(C) Who will pay for the work?
•	
	C) Who will pay for the work? D) Who will use the solution? eedback: (Section 8.2.4)
7 CORRECT	C D) Who will use the solution?

	\checkmark	C B)	False
		,	(Section 8.2.5)
8 CORRECT		In colla	borative requirements gathering the facilitator
		() A)	
		(B)	
	~	•	controls the meeting
	•		
	Fee	D) dback: ((Section 8.3.1)
9 CORRECT			
			of the following is not one of the requirement classifications used in Function Deployment (QFD)?
		(A)	exciting
		C B)	
	V	(C)	
		•	normal
	Fee		(Section 8.3.2)
10		Tho wo	rk products produced during requirement elicitation will vary
CORRECT			ling on the
		() A)	size of the budget.
		С В)	size of the product being built.
		(C)	software process being used.
		O D)	stakeholders needs.
	V	() () ()	both a and b
	Fee		(Section 8.3.4)
11 INCORRECT			ories are complete descriptions the user needs and include the non- nal requirements for a software increment.
	V	(A)	Tuus
		C B)	Falco
12			
CORRECT			pers and customers create use-cases to help the software team tand how different classes of end-users will use functions.
	V	C A)	True
			False
1 2	Fee	dback: ((Section 8.4)
13 CORRECT		Use-ca	se actors are always people, never system devices.
		(A)	True
	V	-	False
	Fee		(Section 8.4)
14 CORRECT			sult of the requirements engineering task is an analysis model that which of the following problem domain(s)?
		C A)	information
		~)	

	C B) functional
	C c) behavioral
✓	C D) all of the above
F	eedback: (Section 8.5.1)
15	
CORRECT	Analysis patterns facilitate the transformation of the analysis model into a design model by suggesting reliable solutions to common problems.
✓	C A) True
	C B) False
F	eedback: (Section 8.5.2)
16	
CORRECT	In agile process models requirements engineering and design activities are interleaved.
✓	C A) True
	C B) False
F	eedback: (Section 8.5.3)
17	
CORRECT	In win-win negotiation, the customer's needs are met even though the developer's need may not be.
	C A) True
✓	C B) False
	eedback: (Section 8.6)
18	ecuback. (Section 6.6)
CORRECT	In requirements validation the requirements model is reviewed to ensure its technical feasibility.
	C A) True
✓	C B) False
F	eedback: (Section 8.8)
19 CORRECT	The most common reason for software project failure is lack of functionality.
	C A) True
✓	C B) False
F	eedback: (Section 8.9)

1	
CORRECT	Which of these is not an element of a requirements model?
	C A) Behavioral elements
	Class-based elements
~	C C) Data elements
	C D Scenario-based elements
	Feedback: (Section 9.1)
2 CORRECT	Which of the following is not an objective for building a requirements model?
	igcirc define set of software requirements that can be validated
	C B) describe customer requirements
~	develop an abbreviated solution for the problem
	© p) establish basis for software design
	Feedback: (Section 9.1.1)
3 CORRECT	Object-oriented domain analysis is concerned with the identification and
CORRECT	specification of reusable capabilities within an application domain.
~	A) True
	C B) False
	Feedback: (Section 9.1.3)
4	In structured analysis models focus on the structure of the classes defined for a
CORRECT	system along with their interactions.
	C A) True
~	C B) False
	Feedback: (Section 9.1.4)
5 CORRECT	Creation and refinement of use cases if an important part of scenario-based
CORRECT	modeling.
V	A) True
	C B) False
	Feedback: (Section 9.2)
6 CORRECT	It is important to consider alternative actor interactions when creating a
CORRECT	preliminary use case.
	C A) True
~	B) False
	Feedback: (Section 9.2.1)
7 CORRECT	Brainstorming is one technique that may be used to derive a complete set of use
CORRECT	case exceptions.
~	C A) True
	C B) False
0	Feedback: (Section 9.2.2)
8 CORRECT	In many cases there is no need to create a graphical representation of a usage
	scenario.

✓	C A) True
	C B) False
	Feedback: (Section 9.2.3)
9 CORRECT	UML activity diagrams are useful in representing which analysis model elements?
	C A) Behavioral elements
	Class-based elements
	C C) Flow-based elements
✓	C D) Scenario-based elements
	Feedback: (Section 9.3.1)
10 CORRECT	UML swimnlane diagrams allow you to represent the flow of activities by showing the actors having responsibility for creating each data element.
	A) True
✓	C B) False
	Feedback: (Section 9.3.2)
1 CORRECT	Which of these is not an element of a requirements model?
	A) Behavioral elements
./	Class-based elements
•	C) Data elements
	Scenario-based elements
Section 6.1.3	
3 CORRECT ✓	Object-oriented domain analysis is concerned with the identification and specification of reusable capabilities within an application domain. C A) True B) False
Section 6.1.4	
4 CORRECT	In structured analysis models focus on the structure of the classes defined for a system along with their interactions. True

	~	C B) False
Section 6.2	2	
5 CORREC	V	Creation and refinement of use cases if an important part of scenario-based modeling. C A) True C B) False
Section 6.2	2.1	
6 CORREC	·	It is important to consider alternative actor interactions when creating a preliminary use case. C A) True C B) False
10 CORREC	v	One or more attributes of a data object must be defined as a key to allow the location of an instance of the data object. A) True B) False
Section 6.4	1.3	
11 CORREC	~	The entity relationship diagram A) depicts relationships between data objects depicts functions that transform the data flow c) indicates how data are transformed by the system D) indicates system reactions to external events
Section 6.5	5.1	
12 CORREC	·	Which of the following should be considered as candidate objects in a problem space? A) events B) people C) structures D) all of the above

Section 6.5.2 Attributes are chosen for an object by examining the problem statement and identifying the entities that appear to be related. A) True B) False Section 6.5.3 Which of the following is not one of the broad categories used to classify

Section 6.5.4

operations?

A)

computation

data manipulation

event monitors

transformers

Which of the following items does not appear on a CRC card? A) class collaborators B) class name C) class reliability C) class responsibilities

Section 6.5.4

Class responsibilities are defined by

A) its attributes only

B) its collaborators

C) its operations only

V C) both its attributes and operations

Section 6.5.6

17 CORRECT

An analysis package involves the categorization of analysis model elements into useful groupings.

✓ C A) True

C B) False

Section 17.1.1



In software quality assurance work there is no difference between software verification and software validation.

- C A) True
- ✓ C B) False

Section 17.1.2

2 CORRECT

The best reason for using Independent software test teams is that

- Software developers do not need to do any testing
- $lue{f C}_{f B)}$ strangers will test the software mercilessly
- C) testers do not get involved with the project until testing begins
- the conflicts of interest between developers and testers is reduced

Section 17.1.3

3 CORRECT

What is the normal order of activities in which traditional software testing is organized?

- lacksquare lacksquare integration testing
- C B) system testing
- C) unit testing
- O validation testing
- C E) c, a, d, and b

Section 17.1.4

4 INCORRECT

By collecting software metrics and making use of existing software reliability models it is possible to develop meaningful guidelines for determining when software testing is done.

✓ _

A) True

0

B) False

Section 17.2



Which of the following strategic issues needs to be addressed in a successful software testing process?

- A) conduct formal technical reviews prior to testing
- Specify requirements in a quantifiable manner

	C use independent test teams
	wait till code is written prior to writing the test plan
~	C E) both a and b
Section 17.3.1	
6 CORRECT	Which of the following need to be assessed during unit testing?
	C A) algorithmic performance
	C B) code stability
	C c) error handling
	C p) execution paths
~	C E) both c and d
Section 17.3.1	
7 CORRECT	Units and stubs are not needed for unit testing because the modules are tested independently of one another. A) True B) False
Section 17.3.2	
Section 17.5.2	
8 CORRECT	Top-down integration testing has as it's major advantage(s) that
	O A) low level modules never need testing
	major decision points are tested early
	C) no drivers need to be written
	O no stubs need to be written
~	C E) both b and c
Section 17.3.2	
9 CORRECT	Bottom-up integration testing has as it's major advantage(s) that
CORRECT	major decision points are tested early
	B) no drivers need to be written
~	C) no stubs need to be written
•	C p) regression testing is not required

Section 17.3.2

10 CORRECT

Regression testing should be a normal part of integration testing because as a new module is added to the system new

- C A) control logic is invoked
- data flow paths are established
- C drivers require testing
- all of the above
- ✓ C

 E) both a and b

Section 17.3.2

11 CORRECT

Smoke testing might best be described as

- bulletproofing shrink-wrapped software
- C B) rolling integration testing
 - C c) testing that hides implementation errors
 - unit testing for small programs

Section 17.4.1

12 CORRECT

When testing object-oriented software it is important to test each class operation separately as part of the unit testing process.

- A) True
- ✓ C B) False

Section 17.4.2

13 CORRECT

The OO testing integration strategy involves testing

- groups of classes that collaborate or communicate in some way
- single operations as they are added to the evolving class implementation
- operator programs derived from use-case scenarios
- O none of the above

Section 17.5

14 CORRECT

Since many WebApps evolve continuously, the testing process must be ongoing

~	as well. C A) True C B) False
Section 17.6	
15 CORRECT ✓	The focus of validation testing is to uncover places that s user will be able to observe failure of the software to conform to its requirements. C A) True C B) False
Section 17.6.1	
16 CORRECT ✓	Software validation is achieved through a series of tests performed by the user once the software is deployed in his or her work environment. A) True B) False
Section 17.6.2	
17 CORRECT	Configuration reviews are not needed if regression testing has been rigorously applied during software integration. C A) True B) False
Section 17.6.3	
18 CORRECT ✓	Acceptance tests are normally conducted by the A) developer B) end users C) test team D) systems engineers
Section 17.7.1	
19 INCORRECT	Recovery testing is a system test that forces the software to fail in a variety of ways and verifies that software is able to continue execution without interruption.

C A) True

	/ C B) False
Section 17.7.2	
20 CORRECT ✓	Security testing attempts to verify that protection mechanisms built into a system protect it from improper penetration. C A) True C B) False
Section 17.7.3	
21 CORRECT	Stress testing examines the pressures placed on the user during system use in extreme environments. C A) True C B) False
Section 17.7.4	
22 CORRECT	Performance testing is only important for real-time or embedded systems. C A) True C B) False
Section 13.7.1	
23 CORRECT ✓	Debugging is not testing, but always occurs as a consequence of testing. C A) True C B) False
Section 17.8.3	
24 CORRECT	Which of the following is an approach to debugging? A) backtracking B) brute force C) cause elimination C) code restructuring E) a, b, and c

What is the normal order of activities in which traditional software testing is organized?

- (C) A) integration testing, system testing, unit testing, validation testing.
- C B) unit testing, validation testing, system testing, integration testing
- C) unit testing, integration testing, validation testing, system testing
- validation testing, system testing, integration testing, unit testing



With thorough testing it is possible to remove all defects from a program prior to delivery to the customer.

- A) True
- \checkmark
- B) False

Section 18.1

2 CORRECT

Which of the following are characteristics of testable software?

- O A) observability
- Simplicity
- C) stability
- \checkmark
- **D)** all of the above

Section 18.2

3 CORRECT

The testing technique that requires devising test cases to demonstrate that each program function is operational is called

- \checkmark
- A) black-box testing
- C B) glass-box testing
- C) grey-box testing
- O white-box testing

Section 18.2

4 CORRECT

The testing technique that requires devising test cases to exercise the internal logic of a software module is called

- O A) behavioral testing
- O B) black-box testing
 - c) grey-box testing

Section 18.3

CORRECT	What types of errors are missed by black-box testing and can be uncovered by white-box testing?
	C A) behavioral errors
	O B) logic errors
	C performance errors
	C p) typographical errors
~	C E) both b and d
	E)
Section 18.4.1	
6 CORRECT	Program flow graphs are identical to program flowcharts.
	C A) True
V	C B) False
Section 18.4.2	
7 CORRECT	The cyclomatic complexity metric provides the designer with information regarding
	the number of C A) cycles in the program
V	B) errors in the program
•	c) independent logic paths in the program statements in the program
	D) statements in the program
Section 18.4.3	
8 CORRECT	The cyclomatic complexity of a program can be computed directly from a PDL
	representation of an algorithm without drawing a program flow graph.
•	C A) True
	B) False
Section 18.5.1	
9 CORRECT	Condition testing is a control structure testing technique where the criteria used to
	design test cases is that they
	(C A) rely on basis path testing
V	B) exercise the logical conditions in a program module

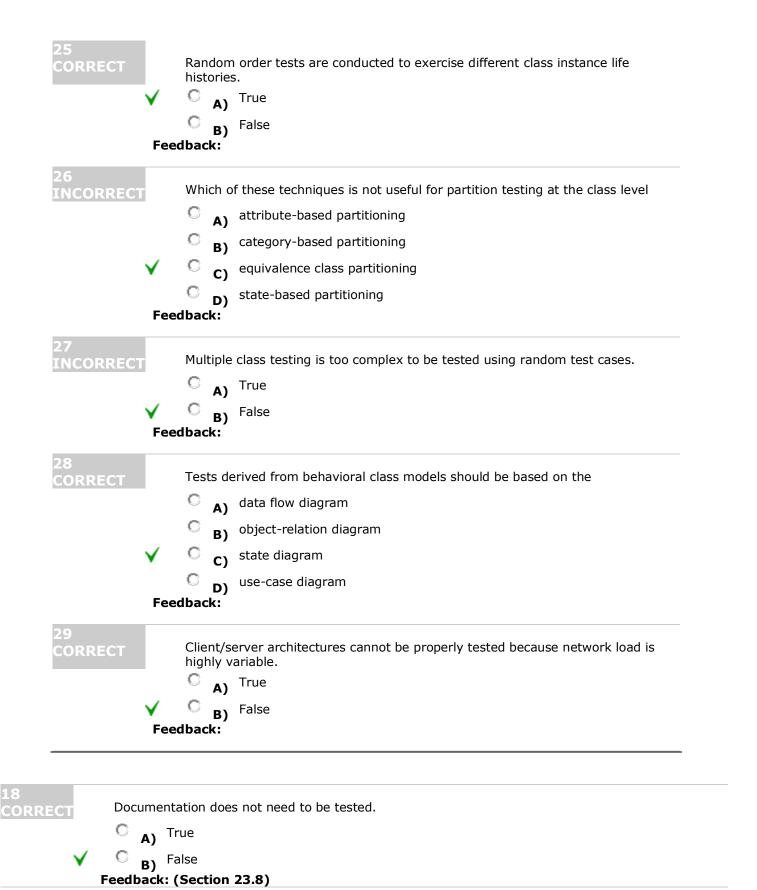
	 c) select test paths based on the locations and uses of variables p) focus on testing the validity of loop constructs
Section 18.5.2	
10 CORRECT	Data flow testing is a control structure testing technique where the criteria use design test cases is that they
	rely on basis path testing
	C B) exercise the logical conditions in a program module
V	Select test paths based on the locations and uses of variables
	C p) focus on testing the validity of loop constructs
Section 18.5.3	
11 CORRECT	Loop testing is a control structure testing technique where the criteria used to
	design test cases is that they C A) rely basis path testing
	C B) exercise the logical conditions in a program module
	C) select test paths based on the locations and uses of variables
~	C p) focus on testing the validity of loop constructs
Section 18.6	
12	
CORRECT	Black-box testing attempts to find errors in which of the following categories
	(A) incorrect or missing functions
	B) interface errors
	C) performance errors
	on none of the above
	C E) a, b, and c
Section 18.6.1	
13 CORRECT	Graph-based testing methods can only be used for object-oriented systems

•	B) raise
Section 18.6.2	
14 CORRECT	Equivalence testing divides the input domain into classes of data from which test cases can be derived to reduce the total number of test cases that must be developed.
✓	C A) True
	C B) False
Section 18.6.3	
15 CORRECT	Boundary value analysis can only be used to do white-box testing.
	C A) True
✓	C B) False
Section 18.6.4	
16 CORRECT	Orthogonal array testing enables the test designer to maximize the coverage of the test cases devised for relatively small input domains.
✓	A) True
	C B) False
Section 18.7	
17 INCORRECT	Test derived from behavioral class models should be based on the
	C A) data flow diagram
	O B) object-relation diagram
✓	C c) state transition diagram
	C D) use-case diagram
Section 18.8.2	

18 CORRECT Client/server architectures cannot be properly tested because network load is highly variable.

	0	A)	True
	0	B)	False
Section 18.8.4			
19 CORRECT	Re		ne applications add a new and potentially difficult element to the testing mix
	O.	A)	performance
	0	B)	reliability
	0	C)	security
	0	D)	time
14 CORRECT		case	valence testing divides the input domain into classes of data from which test s can be derived to reduce the total number of test cases that must be loped. True
	•	\sim	A)
	Feed	lback	D)
16 CORRECT	√ Feed	Custo	parison testing is typically done to test two competing products as part of omer market analysis prior to product release. A) True B) False
17 CORRECT	\	the t	ogonal array testing enables the test designer to maximize the coverage of est cases devised for relatively small input domains. A) True
	Feed	C Iback	B) False
18 CORRECT		of th	case design "in the small" for OO software is driven by the algorithmic detai e individual operations.
	v	0	A) True
	Feed	U Iback	B) False
19 CORRECT			psulation of attributes and operations inside objects makes it easy to obtain ct state information during testing.
		0	A) True

	✓ C I	B) False:
20 CORRECT	tests	cases can provide useful input into the design of black-box and state-based of OO software. True
	C I Feedback	False:
21 INCORRECT	Fault	-based testing is best reserved for
		a) conventional software testing
	. /	operations and classes that are critical or suspect
		use-case validation
		white-box testing of operator algorithms
	Feedback	
22 CORRECT	Testi	ng OO class operations is made more difficult by
COMME		a) encapsulation
		inheritance
	_	polymorphism
	. /	both b and c
	Feedback	
23 INCORRECT	Scen	ario-based testing
	./ 0	concentrates on actor and software interaction
		misses errors in specifications
		misses errors in subsystem interactions
		both a and b
	Feedback	
24 CORRECT	Deep	structure testing is not designed to
GOTATA CO	0	examine object behaviors
		exercise communication mechanisms
		exercise object dependencies
		exercise structure observable by the user



Section 24.1



Effective software project management focuses on

- people, performance, payoff, product
- C B) people, product, performance, process
- C) people, product, process, project
 - people, process, payoff, product

Section 24.1.1

2 CORRECT

Organizations that achieve high levels of maturity in people management have a higher likelihood of implementing effective software engineering processes.



C A) True



B) False

Section 24.1.2

3 CORRECT

The first step in project planning is to

- C A) determine the budget.
- B) select a team organizational model.
- C) determine the project constraints.
- one of the objectives and scope.

Section 24.1.3

4 CORRECT

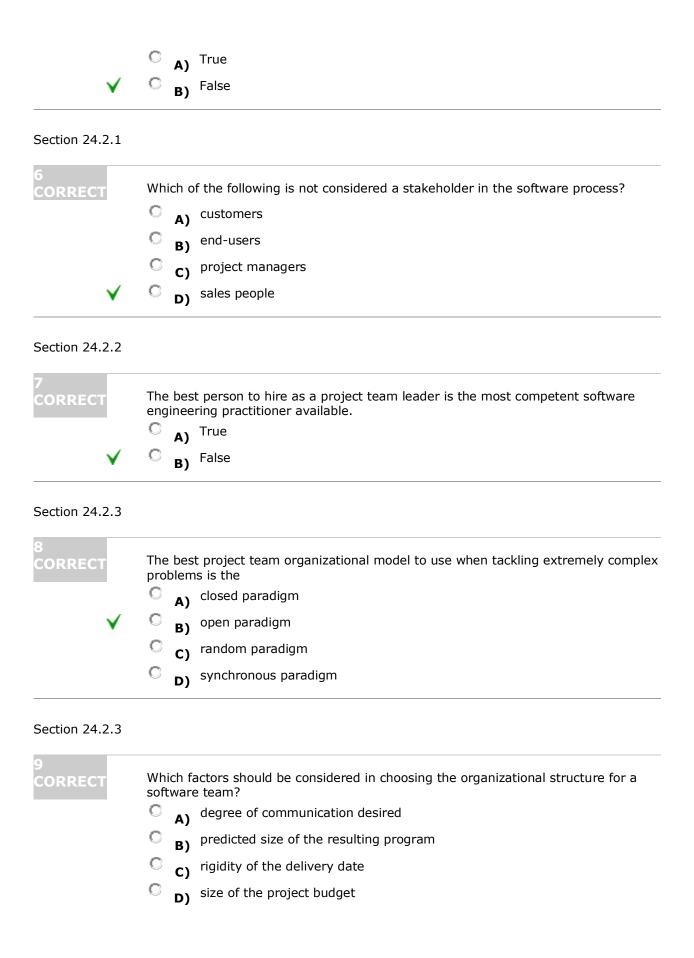
Process framework activities are populated with

- milestones
- O B) work products
- C) QA points

Section 24.1.4

5 CORRECT

Project management is less important for modern software development since most projects are successful and completed on time.



	V	C E) a, b, and c
Section 24	.2.3	
10 CORREC	Т	One of the best ways to avoid frustration during the software development process is to
	•	give team members more control over process and technical decisions.
		give team members less control over process and technical decisions.
		c) hide bad news from the project team members until things improve.
		reward programmers based on their productivity.
Section 24	.2.4	
11 INCORR	ECT	Small agile teams have no place in modern software development.
		A) True
		B) False
Section 24	.2.5	
12 INCORR	ЕСТ	Which of these software characteristics is not a factor contributing to project coordination difficulties?
		A) interoperability
	Y	B) performance
		c) scale
		D) uncertainty
Section 24	.3.1	
13 INCORR	ECT	Which of these software characteristics are used to determine the scope of a software project?
		C A) context, lines of code, function
		C B) context, function, communication requirements
	~	context, function, communication requirements information objectives, function, performance

Section 24.3.2



The major areas of problem decomposition during the project scoping activity are the

- C a customer workflow
- functionality to be delivered
- C) process used to deliver functionality
- C p) software process model
- V C E) both b and c

Section 24.4.1

15 CORRECT

Product and process decomposition occurs simultaneously as the project plan evolves.



- A) True
- C B) False

Section 24.4.2

16 CORRECT

When can selected common process framework activities be omitted during process decomposition?

- $lue{egin{array}{c} lue{eta}}$ when the project is extremely small in size
- C B) any time the software is mission critical
- c) rapid prototyping does not require their use
- ✓
- D) never the activities are invariant

Section 24.5

17 INCORRECT

How does a software project manager need to act to minimize the risk of software failure?

- (A) double the project team size
- C B) request a large budget
- C) start on the right foot
- C D) track progress
- V C F) both c and d

Section 24.6



The W5HH principle contains which of the following questions?

- A) Why is the system being developed?
- **B)** What will be done by whom?
- C) Where are they organizationally located?
- **D)** How much of each resource is required?



C a, c, and d

Section 24.7

Which of these are critical practices for performance-based project management?

- A) assessing product usability
- B) defect tracking against quality targets
- c) empirical cost estimation
- **D)** formal risk management



C **E)** b, c, and d

Section 27.1



Software projects are inevitably late and there is nothing that can explain why.

- 🖺 🗛) True
- ✓ C B) False

Section 27.1

2 CORRECT

It is unethical to undertake a project that you know in advance cannot be completed by the customer's deadline, unless you inform the customer of the risk and establish a project plan that can deliver the needed system incrementally.

- \checkmark
- 🕽 🔥 True
- C B) False

Section 27.2.1

3 CORRECT

Which of the following is not one of the guiding principles of software project scheduling:

- C A) compartmentalization
- ✓ C B) market assessment
 - C) time allocation
 - C effort validation

Section 27.2.2

4 CORRECT

Doubling the size of your software project team is guaranteed to cut project completion time in half.

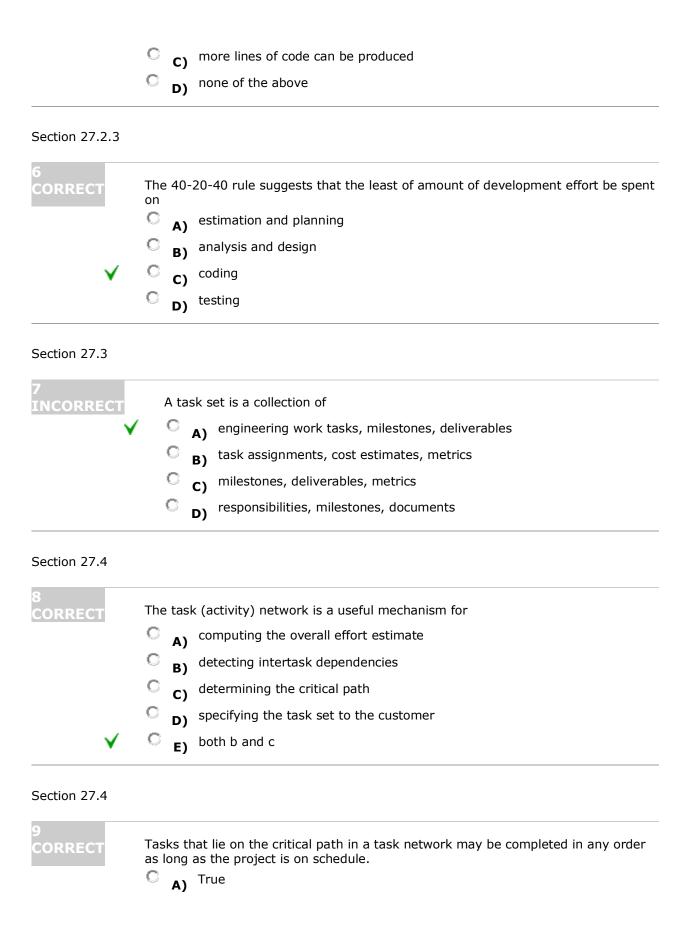
- C A) True
- ✓ C B) False

Section 27.2.2

5 CORRECT

The software equation can be used to show that by extending the project deadline slightly

- √ C A) fewer people are required
 - (C) you are guaranteed to meet the deadline



	V	B) False
Section 27	.5	
10 CORREC		Two tools for computing critical path and project completion times from activity networks are
		C A) CPM
		C B) DRE
		C c) FP
		C D) PERT
	V	C E) both a and d
Section 27	.5.1	
11 CORREC		Timeline charts assist project managers in determining what tasks will be conducted at a given point in time.
	V	C A) True
		B) False
Section 27	.5.2	
12 INCORRI	ЕСТ	The best indicator of progress on a software project is the completion
		O A) of a defined engineering activity task
		O B) of a successful budget review meeting on time
	~	c) and successful review of a defined software work product
		and successful acceptance of project prototype by the customer
Section 27	.5.3	
13		
CORREC	I	Since iterative process model work best for object-oriented projects it is impossible to determine whether an increment will be completed on time or not.
		C A) True
	V	C B) False

14	WebApp projects only require the creation of a macro schedule.
CORRECT	
✓	C B) False
Section 27.6	
15 CORRECT	The purpose of earned value analysis is to
	C A) determine how to compensate developers based on their productivity
✓	provide a quantitative means of assessing software project progress
	provide a qualitative means of assessing software project progress
	set the price point for a software product based on development effort
Section 27.6	
CORRECT	Earned value analysis is a technique that allows managers to take corrective action before a project crisis develops.
V	A) True
	B) False
8 CORRECT	For purposes of determining the major engineering tasks and distributing them on the project time line, the project manager should assume that the process model used is
	C A) linear
	C B) sequential
	C c) iterative evolutionary
~	any of the above
Ī	Feedback:
·	reeuback.
9	
9 INCORRECT	The only means accomplishing task refinement is to make use of a process design language approach.
9	The only means accomplishing task refinement is to make use of a
9	The only means accomplishing task refinement is to make use of a process design language approach.