Chapter 02: Inv	vesugaung System Requirements
a. True	vsis involves the creation of logical models.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	p43 p58
a. True	analyst uses many different models is that each relates to a different aspect of the system.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	p43 p59
a. True	narrative description is the best form to use for recording information.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	p 59
4. A key reason a. True	that modeling is important in system development is the complexity of describing information systems.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	p58
5. Before gather	ing detailed information, and analyst identifies every type of stakeholder.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	p47
use them in the pa. True	CSMS project, customers are not considered stakeholders because it is not feasible to interview them or project activities.
b. False	
ANSWER:	False

7. Core Process 3 involves defining in great detail what the information system needs to accomplish in order to provide

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1

POINTS:

REFERENCES: p48

- a. True
- b. False

ANSWER: True POINTS: 1

REFERENCES: p42

p43

- 8. Beginning analysts often underestimate how much there is to learn about the work the users perform.
 - a. True
 - b. False

ANSWER: True POINTS: 1
REFERENCES: p43

- 9. A fact finding user interview can usually be completed in one comprehensive session.
 - a. True
 - b. False

ANSWER: False POINTS: 1

REFERENCES: p50

p52

- 10. If the analysts understand the major business processes, it is not usually necessary to create a comprehensive list of all business processes.
 - a. True
 - b. False

ANSWER: False POINTS: 1

REFERENCES: p50

- 11. The first and most important step in preparing for an interview is to determine who should be involved.
 - a. True
 - b. False

ANSWER: False POINTS: 1

REFERENCES: p51

- 12. Asking about error conditions usually is done in later interviews after the analyst understands and documents the basic processing requirements.
 - a. True
 - b. False

ANSWER: False

POINTS: 1

REFERENCES: p52

Chapter 02: In	vestigating System Requirements
13. A good way a. True b. False	to remember the details of an interview is to use a tape recorder.
ANSWER:	False
POINTS:	1
REFERENCES:	
14. Reviewing e and procedures. a. True b. False	existing documentation is a good idea for analysts because it is a dependable source of accurate policies
ANSWER:	False
POINTS:	1
REFERENCES:	p56
15. When observa. True b. False	ving business processes, it is not necessary to observe all the processes at the same level of detail.
ANSWER:	True
POINTS:	1
REFERENCES:	
system. a. True	dea to observe user processes so that the analyst will know exactly how to build the functions into the new
b. False	
ANSWER:	False
POINTS:	1
REFERENCES:	p5 /
17. The term "I' a. True b. False	ll know it when I see it" applies to one valid way to get requirements definition.
ANSWER:	True
POINTS:	1
REFERENCES:	p58
40 4 1 1 1	

18. A decision point within an activity diagram may be shown with an activity symbol.

a. True

b. False

ANSWER: True POINTS: 1 REFERENCES: p60

19. A synchronization bar in an activity diagram allows multiple agents or actors to participate in a workflow in separate rows.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: p60-61

- 20. FURPS and FURPS+ are synonymous.
 - a. True
 - b. False

ANSWER: False POINTS: 1

REFERENCES: p46

- 21. The term technology architecture refers to
 - a. the software resources which make up the information systems
 - b. the hardware, network, and system software
 - c. the combination of information systems and the hardware infrastructure
 - d. the configuration of the old technology and new technology within an organization

ANSWER: b
POINTS: 1

REFERENCES: p39

- 22. Application architecture is used to refer to
 - a. the organization and configuration of all software solutions into information systems
 - b. the application of the information system to solve business problems
 - c. the architectural structure of the subsystems within a software application
 - d. the relationship between software applications and the areas of the organization that they support

ANSWER: a POINTS: 1 REFERENCES: p40

- 23. Which of the following items is NOT a part of the application architecture?
 - a. software
 - b. programming languages and development tools
 - c. user-interface technology
 - d. virtual private networks

ANSWER: d
POINTS: 1
REFERENCES: p40

- 24. Which of the following describes what the system is required to do?
 - a. Functional requirements
 - b. General requirements
 - c. User requirements
 - d. Nonfunctional requirements

ANSWER:	a
POINTS:	1
REFERENCES:	p45
25 req	uirements are based on the procedures and rules that the organization uses to run its business.
a. Physical	
b. Functiona	al
c. Logical	
d. System	
ANSWER:	b
POINTS:	1
REFERENCES:	p45
-	uirements are characteristics of the system other than the business procedures it must support.
a. System	
b. Physical	
c. Nonfunct	ional
d. Implemer	ntation
ANSWER:	c
POINTS:	1
REFERENCES:	p45
27. The S in the	FURPS acronym stands for
a. Screen ar	nd reporting requirements
b. Software	requirements
c. System re	equirements
d. Security 1	requirements
ANSWER:	d
POINTS:	1
REFERENCES:	p45-46
28. The P in the	FURPS acronym stands for
a. Physical	requirements
b. Performa	nce requirements
c. People re	quirements
d. Processin	ng requirements
ANSWER:	b
POINTS:	1
REFERENCES:	p45-46
29 req	uirements are most often documented in graphical and textual models.
a. Security	
b. Nonfunct	ional
c. Technica	I
d. Functiona	al

Chapter 02: Investigating System Requirements ANSWER: d **POINTS:** 1 REFERENCES: p59 30. Diagrams and schematic representations of some aspect of a system are examples of a _____ model. a. logical b. graphical c. mathematical d. textual ANSWER: b POINTS: 1 REFERENCES: p59 31. A representation of some aspect of the system being built is a _____. a. requirement b. technique c. model d. user interface ANSWER: c **POINTS:** 1 REFERENCES: p58 32. A series of formulas that describe technical aspects of a system is a(n) model. a. textual b. descriptive c. graphical d. mathematical ANSWER: d **POINTS:** 1 REFERENCES: p59 33. What does the Acronym UML stand for? a. User Modification Language b. Unified Modeling Language c. User Mode Listings d. Unix Modeling Language ANSWER: b **POINTS:** 1 REFERENCES: p59

34. The term _____ refers to all the people who have an interest in the successful implementation of the system.

a. usersb. clientsc. managersd. stakeholders

ANSWER:	d
POINTS:	1
REFERENCES:	p47
	regularly interact with the system as part of their jobs are called
a. user stake	
b. client stal	
-	al stakeholders
	stakeholders
ANSWER:	c
POINTS:	1
REFERENCES:	p47
36. What type of reports, from the	stakeholders are those that do not use the system on day to day tasks, but use information, such as system.
_	stakeholders
b. Client sta	keholders
c. External s	stakeholders
d. Executive	e stakeholders
ANSWER:	d
POINTS:	1
REFERENCES:	p48
37. What do we	call the person or group who provides funding for the development of the new system?
a. Oversight	committee
b. Client	
c. Board of	directors
d. Departme	ent head
ANSWER:	b
POINTS:	1
REFERENCES:	p48
38. The group th called	at provides direction for the configuration of the new system in the existing computing environment are
a. Technical	stakeholders
b. Support s	taff
c. System pr	rogrammers
d. Operation	al stakeholders
ANSWER:	a
POINTS:	1
REFERENCES:	p48
	what role in the development of the new system? the project plan

b. Fund the project

c. Define bu	asiness processes
d. Lead the	project team
ANSWER:	b
POINTS:	1
REFERENCES:	p48
	res can be useful in information gathering when users
	y distributed geographically
_	npting to respond to questions
c. are not w	ell-informed
	ve time for interviews
ANSWER:	a
POINTS:	1
REFERENCES:	p54
41. Questions th	at have a simple, definitive answer are called questions.
a. true/false	
b. close-end	led
c. open-end	ed
d. multiple	choice
ANSWER:	b
POINTS:	1
REFERENCES:	p51
42. Which of the	e following is normally the most time-consuming and resource-expensive operation?
a. Building	prototypes
b. Observin	g business processes
c. Research	ing vendor solutions
d. Interview	stakeholders
ANSWER:	d
POINTS:	1
REFERENCES:	p50
43. Questionnair	res can be used to ask questions that
a. determine	e user opinions
b. determine	e the stakeholders
c. define sy	stem functions
d. detail use	er procedures
ANSWER:	a
POINTS:	1
REFERENCES:	p54
44. During a fac	t-finding interview, an important guideline is
a. to include	e as many users as possible
b. not to wa	ste project time by including too many analysts

c. to probe to	get sufficient details
d. to include	the client in important decisions
ANSWER:	c
POINTS:	1
REFERENCES:	p52
45. The strength	of closed-ended questions is that they
a. invite disc	eussion and elaboration
b. limit answ	vers to a set of choices
c. speed up t	he interview process
d. are easier	for the users to answer
ANSWER:	b
POINTS:	1
REFERENCES:	p51
	following statements is correct about questionnaires?
	aires are well suited to help you learn about processes, workflows, or techniques.
	ers always return questionnaires that contain many open-ended questions.
	aires have a limited and specific use in information gathering.
	aires are the most frequently used method to gather user information.
ANSWER:	c
POINTS:	1
REFERENCES:	p54-55
-	portant step in preparing for an interview is to
	the correct users
	t of questions
c. establish a	n objective
d. determine	the project team members
ANSWER:	c
POINTS:	1
REFERENCES:	p51
•	detailed, probing questions during an initial interview usually users uncomfortable
	ry to understand the business process
	intil follow-up interviews
	hat the analyst does not understand the business
ANSWER:	b
POINTS:	1
REFERENCES:	
49. is an im	portant part of each interview.
a. Follow-up	
-	the requirements models

Chapter 02: Investigating System Requirements c. An agenda

c. An agenda
d. Finalize processing decisions
ANSWER: a
POINTS: 1
REFERENCES: p54
50 is an important part of the follow-up after an interview.
a. Establishing documentation guidelines
b. Building models
c. Making copies of everyone's notes
d. Setting the time for the next meeting
ANSWER: b
POINTS: 1
REFERENCES: p54
51. Every successful interview requires
a. open-ended questions
b. preparation
c. an activity diagram
d. finding the exception conditions
ANSWER: b
POINTS: 1
REFERENCES: p51
52. As part of the interview process, any unresolved issues should be
a. noted in the analyst's meeting notes
b. given a tentative resolution
c. brought to the attention of the appropriate manager
d. put on an open-items list
ANSWER: d
POINTS: 1
REFERENCES: p54
53. One of the dangers in researching vendor solutions is that users and analysts
a. may discover and desire too many unimportant "bells and whistles"
b. may not understand the vendor solution
c. may discover different methods to perform business processes
d. may want to buy one of these solutions prematurely
ANSWER: d
POINTS: 1
REFERENCES: p57
The Enditorial por

- 54. The term "I'll know it when I see it" refers to what method of requirements definition.
 - a. Questionnaires
 - b. User interviews

c. Observing business procedures
d. Collecting active user comments
ANSWER: d
POINTS: 1
REFERENCES: p58
55. One way to show multiple, independent alternative paths within an activity diagram is with a
a. synchronization bar
b. swimlane
c. decision diamond
d. activity oval
ANSWER: c
POINTS: 1
REFERENCES: p60
56. Workflows can be documented using
a. swimlanes
b. use case diagrams
c. class diagrams
d. activity diagrams
ANSWER: d
POINTS: 1
REFERENCES: p560
57. Looping in an activity diagram is best represented using what?
a. synchronization bars
b. decision points
c. activity ovals
d. lines with arrowheads
ANSWER: a
POINTS: 1
REFERENCES: p560
58. One important reason for prioritizing requirements is to
a. assign work within an iteration
b. speed up the project
c. avoid confusing the users
d. avoid scope creep
ANSWER: d
POINTS: 1
REFERENCES: p44
59. The "+" in FURPS+ includes which of the following types of requirements? (choose two)
a. Supportability requirements

b. Performance constraints

- **Chapter 02: Investigating System Requirements** c. Reliability constraints d. Nonfunctional requirements e. Design constraints f. User interface requirements ANSWER: a.e **POINTS:** 2 REFERENCES: p46 60. Which are the major business themes that guide analysts in fact finding activities? (chose 3) a. What are the business processes? b. Who performs the business processes? c. How are the business processes performed? d. What are the objectives of a business process? (What should it accomplish?) e. What is produced by the business process? f. What information is needed? ANSWER: a.c.f **POINTS:** 2 REFERENCES: p50-51 61. What are the two primary benefits of reviewing the documentation of existing inputs, outputs, and procedures. (choose 2) a. Have a repository of existing documentation b. Obtain a preliminary understanding c. Encourages the users to prepare for interviews d. Help build models of existing procedures e. Ensure complete documentation of procedures f. Serve as visual aids in interview discussions ANSWER: b, f **POINTS:** 2 REFERENCES: p55-56 62. Two benefits of researching vendor solutions include _____ and _____. (Choose two) a. encouraging the users to buy a vendor solution immediately b. helping analysts discover state of the art solutions c. helping users generate new ideas for business functions d. speeding up the development project
 - e. informing senior management about competitors
 - f. reducing the risk of implementing a new system

ANSWER: b, c **POINTS:** 1 REFERENCES: p57

- 63. Which two of the following are activities of Core Process 3? (choose two)
 - a. Gather detailed information
 - b. Plan the project iterations

c. Build an	iteration schedule
d. Define te	st data
e. Develop	user-interface dialogs
f. Develop	architectural structure
ANSWER:	a, e
POINTS:	2
REFERENCES:	p42
64. Core Proces	s 3 is called "Discover and understand details." Another term that is used to describe these activities is es.
ANSWER:	analysis Analysis systems analysis Systems Analysis
POINTS:	2
REFERENCES:	p42
65. The U in the	FURPS acronym stands for
ANSWER:	usability Usability usability requirements Usability requirements
POINTS:	2
REFERENCES:	p45
66. The R in the	FURPS acronym stands for
ANSWER:	reliability requirements Reliability requirements reliability Reliability
POINTS:	2
REFERENCES:	p45
67. The P in the	FURPS acronym stands for
ANSWER:	performance requirements performance Performance Performance requirements
POINTS:	2
REFERENCES:	p46
68 req	uirements describe operational characteristics related to users such as work procedures and online help. Usability usability
POINTS:	2
REFERENCES:	p45
69 req	uirements describe the dependability of a system such as service outages and incorrect processing.

ANSWER:	Reliability reliability
POINTS:	2
REFERENCES:	p45
_	uirements describe operational characteristics related to measures of workload such as throughput and
response time.	
ANSWER:	Performance performance
POINTS:	2
REFERENCES:	p46
71 req	uirements describe how access to the software application will be controlled and data will be protected.
ANSWER:	Security security
POINTS:	2
REFERENCES:	p46
	uirements describe constraints such as programming languages, tools, and communication protocols for ons of the system.
ANSWER:	Implementation implementation
POINTS:	2
REFERENCES:	p46
	uirements describe interactions between systems, e.g. the method of communication between one system
and another syst	
ANSWER:	Interface interface
POINTS:	2
REFERENCES:	p46
_	uirements describe how a system is configured, monitored, maintained, and updated.
ANSWER:	Supportability supportability
POINTS:	2
REFERENCES:	p46
75. Use case dia	grams, class diagrams, sequence diagrams are all examples of standard modeling method?
ANSWER:	UML Unified Modeling Language Unified modeling language
POINTS:	2
REFERENCES:	p59
	have an interest in the successful implementation of the new system are called
ANSWER:	stakeholders
$POINTS \cdot$	2

REFERENCES:	p47
77. Persons with <i>ANSWER</i> :	in an organization who have a significant interest in its operation are stakeholders. internal
POINTS:	2
REFERENCES:	p47
calleds	
ANSWER:	
POINTS:	2
REFERENCES:	p47
ANSWER:	
POINTS:	2
REFERENCES:	p51
	at encourage discussion are called questions.
ANSWER:	•
POINTS:	
REFERENCES:	p51
81. The most im of the interview.	portant and first step in preparing for an interview with a user is to establish the
ANSWER:	objective
POINTS:	2
REFERENCES:	p51
	s the sequence of processing steps that completely handles one business transaction.
ANSWER:	
POINTS:	2
REFERENCES:	p5/
83. An	describes the sequential flow of user activities.
ANSWER:	activity diagram workflow diagram
POINTS:	2
REFERENCES:	p60
84. One way to s ANSWER:	show concurrent paths within an activity diagram is with a synchronization bar
POINTS:	2
REFERENCES:	
TELLECTION.	k

85. In order to show all the activities of a single agent or organizational unit together, a activity diagram contains what

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construct?

ANSWER: swimlane

swimlane heading

Swimlane

Swimlane heading

POINTS: 2
REFERENCES: p60

86. List the activities of Core Process 3: Discover and Understand Details

ANSWER:

- 1. Gather detailed information
- 2. Define requirements
- 3. Prioritize requirements
- 4. Develop user-interface dialogs
- 5. Evaluate requirements with users

POINTS: 5
REFERENCES: p42

87. List the elements that are referred to by the FURPS+ acronym.

ANSWER: F = Functional requirements

U = Usability requirements
 R = Reliability requirements
 P = Performance requirements
 S = Security requirements

+ = Other constraints including Design constraints, Implementation requirements, interface

requirements, physical requirements, supportability requirements.

POINTS: 5

REFERENCES: p45-46

88. List the six techniques used to gather detailed requirements information.

ANSWER:

- 1. Interview users
- 2. Distribute questionnaires
- 3. Review documents
- 4. Observer users
- 5. Research vendor solutions

6. Collect active user comments

POINTS: 5 *REFERENCES*: p50

89. List five steps in the activity to interview users and other stakeholders.

ANSWER:

- 1. Prepare detailed questions
- 2. Meet with users
- 3. Discuss answers and procedures
- 4. Document answers
- 5. Follow-up on open issues

POINTS: 5
REFERENCES: p50

90. List the three major question themes that guide analysts in fact finding activities.

ANSWER:

- 1. What are the business processes?
- 2. How are the business processes performed?
- 3. What information is required?

POINTS: 5 *REFERENCES*: p50