## **Cognition Exploring the Science of the Mind 5th Edition Reisberg Test Bank**

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# **Chapter 1: The Science of the Mind**

### **MULTIPLE CHOICE**

1.	<ul><li>Which of the following top</li><li>a. dreaming</li><li>b. decision making</li></ul>	C	y studied within cognitive psychology? . memory I. attention
		Easy REF : IA	: The Scope of Cognitive Psychology
2.	Cognitive processes are NG a. reading a newspaper b. studying for a test	, (	h daily activity? . talking on the phone l. breathing
		Easy REF : IA	: The Scope of Cognitive Psychology
3.	<ul><li>Patients suffering from clin</li><li>a. memory.</li><li>b. ability to recognize pate</li></ul>	C	acterized by a disorder in their . speech. l. ability to comprehend language.
		Easy REF : IB	: The Scope of Cognitive Psychology
4.	<ul><li>a. "He cannot remember hour ago."</li><li>b. "He read this story last</li><li>c. "Even though he has en her."</li></ul>	what he did earlier too month, but he was stincountered the nurse r	ely to apply to patient H.M.? lay, including events that took place just an ll surprised by how the story turned out." nany times, he is still unable to recognize months to the news of his uncle's death."
	ANS: D DIF: OBJ: Applied TOP		: The Scope of Cognitive Psychology
5.	processes. c. Memory is not very im	ficient evidence in and in mental processes, a portant.	<b>A</b>
		Medium REF : IB	: The Scope of Cognitive Psychology
6.	<ul><li>b. procedure of examining</li><li>c. process of each person</li><li>d. technique of studying t</li></ul>	ndividual seeks to info g thought processing b looking within, to obs hought by interpreting	er the thoughts of another individual. by monitoring the brain's electrical activity. serve his or her own thoughts and ideas. g the symbols used in communication. The Years of Introspection
		Easy REF : IIA	. The rears of introspection

7.	A participant is as This method is ca a. self-reflection b. self-monitorin	lled 1.	c within him-	c.	f and report on his or her own mental processes. introspection. mentalistic study.
	ANS: C OBJ: Factual	DIF: TOP:	•	REF:	The Years of Introspection
8.	Introspection CAI a. topics that are b. mental events c. processes that d. events that tak	e strongly c that are un involve co	olored by en conscious. onceptual kno	owledge.	
	ANS: B OBJ: Applied	DIF: TOP:	•	REF:	The Years of Introspection
9.	<ul><li>Which of the follo</li><li>a. It is based on</li><li>b. It is subjective</li><li>c. It provides a t</li><li>d. It was an early</li></ul>	opinions, r e. estable hyp	ot facts. oothesis.	introspect	tion is NOT true?
	ANS: C OBJ: Factual	DIF: TOP:	Medium IIA	REF:	The Years of Introspection
10.	she analyzes her r process?	nental beha		elings abo	ames of new acquaintances. In search of an answer, but meeting new people. Genie is engaged in which
	<ul><li>a. subvocal rehe</li><li>b. introspection</li></ul>	arsal			learning history analysis goal retrieval
	ANS: B OBJ: Applied		Medium IIA	REF:	The Years of Introspection
11.	<ul><li>a. it was the first</li><li>b. interpretation</li></ul>	t systemation of our mer ents are just	e attempt to o tal lives requ as importan	observe an uires train	gnitive psychology as a science because nd record the content of mental processes. ing. ascious events.
	ANS: A OBJ: Conceptua		Medium IIA1	REF:	The Years of Introspection
12.	<ul><li>a. A verbal report that were non b. Different part</li><li>c. At present, the brain and the brain</li></ul>	rt based on verbal in na icipants use ere is enorr ideas and t	introspectio ature. e different te nous uncerta houghts avai	n may pro rms to des inty abou lable to in	rn about the use of introspection as a research tool? ovide a distorted picture of mental processes scribe similar experiences. t the relationship between the activity in the trospection. ey choose to disclose.
	ANS: C OBJ: Conceptua	DIF: 1 TOP:	Medium IIA2	REF:	The Years of Introspection

- 13. Which of the following statements provides the MOST serious obstacle to the use of introspection as a source of scientific evidence?
  - a. When facts are provided by introspection, we have no way to assess the facts themselves, independent of the reporter's particular perspective on them.
  - b. Introspection requires an alert, verbally expressive investigator; otherwise, the evidence provided by introspection will be of poor quality.
  - c. Introspection provides evidence about some mental events but cannot provide evidence about unconscious processes or ideas.
  - d. The process of reporting on one's own mental events can take a lot of time and can slow down the processes under investigation.

ANS:	А	DIF:	Difficult	REF:	The Years of Introspection
OBJ:	Conceptual	TOP:	IIA2		

14. The process of taking observable information and inferring a cause is known as a. mentalistic inference. c. cause and effect.

b. th	e transcendenta	l metho	od.	d.	introspection.
ANS: OBJ:	B Factual	DIF: TOP:	Medium IIC1	REF:	The Years of Introspection

15. An elderly woman has suffered a stroke in her left temporal lobe and consequently can no longer name common nouns. This provides evidence that language is located in the left hemisphere for most people. What kind of evidence is this?

<ul><li>a. introspection</li><li>b. unique populat</li></ul>	ion		neuroscience behavioral
ANS: C OBJ: Applied	DIF: Medium TOP: IIID2	REF:	The Years of Introspection

- 16. Historically, the movement known as behaviorism was encouraged by scholars' concerns regarding a. psychotherapy.
  - b. an exaggerated focus on participants' responses.
  - c. research based on introspection.
  - d. a focus on brain mechanisms and a corresponding inattention to mental states.

ANS: C	DIF: Easy	REF: The Years of Behaviorism
OBJ: Applied	TOP: IIB	

- 17. One important difference between classical behaviorism and cognitive psychology is that cognitive psychology
  - a. argues that unobservable mental states can be scientifically studied.
  - b. rejects the use of human participants.

18.

- c. insists on studying topics that can be directly and objectively observed.
- d. emphasizes the evolutionary roots of human behavior.

ANS: A	DIF: Medium	REF:	The Years of Behaviorism
OBJ: Applied	d TOP: IIB		
Behaviorists s	tudy organisms'		
a. expectatio		с.	dreams.
b. desires and	d motivations.	d.	responses.
ANS: D OBJ: Factual	DIF: Easy TOP: IIB1	REF:	The Years of Behaviorism

19.	Behaviorists argued that were most important in analyzing behavior.a. expectationsc. wishesb. beliefsd. learning histories
	ANS: DDIF: EasyREF: The Years of BehaviorismOBJ: FactualTOP: IIB1
20.	<ul> <li>Which of the following would a classical behaviorist be LEAST likely to study?</li> <li>a. a participant's response to a particular situation</li> <li>b. a participant's beliefs</li> <li>c. changes in a participant's behavior that follow changes in the environment</li> <li>d. principles that apply equally to human behavior and to the behavior of other species</li> </ul>
	ANS: BDIF: MediumREF: The Years of BehaviorismOBJ: AppliedTOP: IIB1
21.	<ul> <li>Modern psychology turned away from behaviorism in its classic form because</li> <li>a. human behavior is routinely determined by our understanding of stimuli.</li> <li>b. humans are more similar to computers than to other species studied in the laboratory.</li> <li>c. psychology rejected behaviorism's emphasis on an organism's subjective states.</li> <li>d. an organism's behavior can be changed by learning.</li> </ul>
	ANS: ADIF: MediumREF: The Years of BehaviorismOBJ: ConceptualTOP: IIB2
22.	<ul> <li>If Sheila says, "Pass the salt, please," you are likely to pass her the salt. You'll probably respond in the same way if Sheila (a chemistry major) instead asks, "Could you please hand me the sodium chloride crystals?" This observation seems to indicate that our behavior is <ul> <li>a. primarily controlled by the physical characteristics of the stimuli we encounter.</li> <li>b. shaped by the literal meanings of the stimuli we encounter.</li> <li>c. determined by simple associations among the stimuli we encounter.</li> <li>d. governed by what the stimuli we encounter mean to us.</li> </ul> </li> </ul>
	ANS: DDIF:DifficultREF:The Years of BehaviorismOBJ:ConceptualTOP:IIB2
23.	<ul> <li>Cognitive psychology often relies on the transcendental method, in which</li> <li>a. mental events are explained by referring to events in the central nervous system.</li> <li>b. information from introspection transcends behavioral data.</li> <li>c. researchers seek to infer the properties of unseen events on the basis of the observable effects of those events.</li> <li>d. theories are tested via computer models.</li> </ul>
	ANS: CDIF: EasyREF: The Roots of the Cognitive RevolutionOBJ: FactualTOP: IIC
24.	Alyssa wants to be a psychologist but is unsure which topic within psychology most interests her.Which of the following topics would be least likely to lead her into cognitive psychology?a. amnesiac. depressionb. language acquisitiond. problem-solving strategies
	ANS: CDIF: EasyREF: The Roots of the Cognitive RevolutionOBJ: AppliedTOP: IIC1

25. The philosopher Immanuel Kant based many of his arguments on transcendental inferences. A commonplace example of such an inference is a

- a. physicist inferring what the attributes of the electron must be on the basis of visible effects that it causes.
- b. computer scientist inferring what the attributes of a program must be on the basis of his or her long-range goals for the program's functioning.
- c. biologist inferring how an organism is likely to behave in the future on the basis of assessment of past behaviors.
- d. behaviorist inferring how a behavior was learned on the basis of a deduction from well-established principles of learning.

ANS: ADIF: MediumREF: The Roots of the Cognitive RevolutionOBJ: AppliedTOP: IIC1

- 26. Cognitive psychologists try to make inferences about causes, based on the observed effects. In this way, cognitive psychologists are most like
  - a. crime scene investigators.b. garbage collectors.c. chefs.d. construction work

b. garbage collectors.
ANS: A DIF: Medium REF: The Roots of the Cognitive Revolution OBJ: Applied TOP: IIC1

- 27. The "cognitive revolution" is named as such because:
  - a. the focus changed from behaviors to the processes underlying those behaviors.
  - b. the change was accompanied by violence.
  - c. the focus changed from animals to humans.
  - d. philosophers such as Kant were strongly opposed to the change.

ANS: ADIF: EasyREF: The Roots of the Cognitive RevolutionOBJ: AppliedTOP: IIC2

28. In cognition, as in other sciences, we first develop \_\_\_\_\_ and then \_\_\_\_\_ them.

a. tests; provec. hypotheses; proveb. theories; testd. hypotheses; test

ANS: DDIF: MediumREF: The Roots of the Cognitive RevolutionOBJ: AppliedTOP: IIC2

- 29. The multicomponent model of working memory shows that
  - a. cognitive theories must be accompanied by a model.
  - b. we can only test things we can physically see.
  - c. theories are built around testable predictions.
  - d. evidence from multiple sources often leads to confusion.

ANS: C DIF: Medium REF: The Roots of the Cognitive Revolution OBJ: Conceptual TOP: IIIC

#### 30. Working memory acts to

- a. store an unlimited amount of information.
- b. store a limited amount of information for an unlimited amount of time.
- c. keep relevant information active for a short period of time.
- d. store irrelevant information so it does not influence long-term memory.

ANS:	С	DIF:	Easy	REF:	Working Memory: Some Initial Observations
OBJ:	Factual	TOP:	IIIA1		

31.	number down, so yo this task?			Which co	ber. You have nothing with which to write the ognitive process will you engage in to accomplish
	<ul><li>a. amnesia</li><li>b. long-term memory</li></ul>	ory		с. d.	introspection working memory
	ANS: D OBJ: Applied		Easy IIIA1	REF:	Working Memory: Some Initial Observations
32.	at last." When you re	each the ou won't y.	sentence's 13t	h word l into be c.	eading and working on his term paper, fell into bed ("fell"), you need to remember how the sentence ed. The memory used for this task is called generic memory. long-term memory.
	ANS: B OBJ: Applied		Medium IIIA2	REF:	Working Memory: Some Initial Observations
33.	<ul><li>and then put the card</li><li>first four numbers. W</li><li>a. Working memor</li><li>b. Your credit card</li><li>c. The pizza delive</li></ul>	l back in Which of y is lim number ry guy l	to your wallet. f the following ited to 15 items r is mostly 4's a keeps talking w	When provide s, and ye and 2's while you	redit card. You glance at your credit card number it comes time to pay, you can only remember the es the BEST explanation as to why? our card has 16 digits. and you get confused. u are rehearsing the digits. you have to hold the phone.
	ANS: C OBJ: Applied		Medium IIIA3	REF:	Working Memory: Some Initial Observations
34.	<ul><li>Span tests measure</li><li>a. the size of the pl</li><li>b. working-memor</li><li>c. whether there is</li><li>d. articulatory loop</li></ul>	y capac a centra	ity. Il executive.		
	ANS: B OBJ: Factual	DIF: TOP:	Easy IIIA4	REF:	Working Memory: Some Initial Observations
35.		ck the s	equence. The l	ongest s rs. c.	equence of letters and then, a moment later, are sequence for which participants can easily do this is 7 12
	ANS: C OBJ: Factual		Easy IIIA4	REF:	Working Memory: Some Initial Observations
36.					emember. With each perfectly recalled list, you e begins to make errors. This sort of test examines

- a. working-memory span.b. the limits of concurrent articulation.
- c. brain activity.
- d. memory for abstract objects.

OBJ: Applied TOP: IIIA4	ANS: OBJ:		DIF: TOP:	•	REF:	Working Memory: Some Initial Observation
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37.	<ul><li>Subvocalization is also known as</li><li>a. the reading buffer.</li><li>b. the inner voice.</li></ul>	c. d.	the inner ear. memory speech.
	ANS: B DIF: Easy OBJ: Factual TOP: IIIB2	REF:	Working Memory: A Proposal
38.	<ul><li>The technical term for talking to yo</li><li>a. vocal memory.</li><li>b. schizophrenia.</li></ul>	ourself when reh c. d.	subvocalization.
	ANS: C DIF: Easy OBJ: Factual TOP: IIIB2	REF:	Working Memory: A Proposal
39.	<ul><li>Within the working-memory system information soon to be needed but in a. output buffer.</li><li>b. executive assistant.</li></ul>	not currently in	response-planning system.
	ANS: D DIF: Media OBJ: Factual TOP: IIIB2		Working Memory: A Proposal
40.	<ul><li>In using the articulatory rehearsal le</li><li>a. a phonological buffer.</li><li>b. episodic memory.</li></ul>	oop, the central c. d.	executive temporarily relies on storage in a subvocal bank. a visual form in visual memory.
	ANS: A DIF: Easy OBJ: Factual TOP: IIIB3	REF:	Working Memory: A Proposal
41.	<ul><li>sequence aloud. If errors occur in th</li><li>a. sound-alike confusions; for example.</li><li>b. look-alike confusions; for example.</li><li>c. confusions with near neighbors</li></ul>	nis procedure, the second seco	ead of "D."
	ANS: A DIF: Media OBJ: Applied TOP: IIIC2		Working Memory: A Proposal
42.	because a. the multicomponent model is tr	rue. articulation com	
	ANS: B DIF: Diffic OBJ: Applied TOP: IIIB	ult REF:	Evidence for the Working-Memory System
43.	Theorists have proposed that worki	ng memory is b	est understood as a system involving multiple

- components. The activities of this system are controlled by a resource called the a. buffer. c. central processor. b. supervisor. d. central executive.

ANS:	D	DIF:	Easy
OBJ:	Factual	TOP:	IIIB1

REF: Evidence for the Working-Memory System

44. Bert has sustained damage to a part of his left temporal lobe, which is important for language production. Which of the following problems would we expect to see if Bert were given a WM test?

- a. He would not be able to memorize visual shapes.
- b. He would have difficulty rehearsing items with verbal labels.
- c. His WM would be entirely nonexistent.
- d. No WM problems would be observed.

ANS: B	DIF:	Difficult	REF:	Evidence for the Working-Memory System
OBJ: Applied	TOP:	IIIC		

45. The task of saying, "tah, tah," while taking a span test to assess working memory is known as
a. concurrent articulation.
b. working-memory speech
c. subvocalization.
d. the phonological buffer

b. working memory spee		u.	the phonological bullet.
	: Easy P: IIIC1	REF:	Evidence for the Working-Memory System

- 46. Participants in an experiment are shown a series of digits and then asked to repeat them back a moment later. While being shown the sequence, the participants are required to say, "tah, tah, tah," out loud, over and over again. The evidence indicates that the recitation of "tah, tah, tah," will
  - a. have no effect on participants' memory performance.
  - b. provide a rhythm that helps organize participants' rehearsal of the digits, thereby improving their memory performance.
  - c. block participants from using their inner voice to rehearse the digits, thereby interfering with the memory task.
  - d. force participants to rely on the central executive rather than on a less powerful lower-level assistant, thereby improving memory performance.

ANS:	С	DIF:	Medium	REF:	Evidence for the Working-Memory System
OBJ:	Applied	TOP:	IIIC1		

- 47. Participants are shown a series of complex shapes (that are not easily named) and asked to draw them from memory after they have been taken away. Which of the following statements about this exercise is TRUE?
  - a. On average, participants can correctly draw ten of the shapes from memory.
  - b. Participants can use the process of subvocalization to help them remember the shapes.
  - c. Concurrent articulation decreases performance dramatically.
  - d. Saying, "tah, tah," out loud while doing this task should not affect performance.

ANS: D	DIF:	Difficult	REF:	Evidence for the Working-Memory System
OBJ: Applied	TOP:	IIIC2b		

- 48. Which of the following kinds of evidence is least likely to be used in cognitive psychology?
  - a. case studies of patients with brain damage
  - b. behavioral findings such as response times
  - c. brain activity in the form of fMRI
  - d. self-reported dreams

ANS:	D	DIF:	Easy	REF:	The Nature of the Working-Memory Evidence
OBJ:	Applied	TOP:	IIC2		

49. Even though the articulatory loop cannot be seen directly, we are confident it exists because

- a. it is the only possible explanation.
- b. without it, we could not remember phone numbers.
- c. people with anarthria show deficits in the phonological buffer.
- d. behavioral manipulations, like articulatory suppression, suggest it is a distinct component.

ANS: D	DIF: Medium	REF: The Nature of the Working-Memory Evidence
OBJ: Applied	TOP: IIIC	

- 50. Which of the following is NOT central to research in neuropsychology?
  - a. the use of introspection
  - b. how brain dysfunctions affect performance
  - c. brain development
  - d. brain-imaging technology

ANS: ADIF: MediumREF: The Nature of the Working-Memory EvidenceOBJ: AppliedTOP: IIID2

- 51. Evidence from anarthric (speechless) patients suggests that
  - a. the muscles necessary for speech are also needed for subvocalization.
  - b. subvocalization does not use words.
  - c. the muscles needed for speech are not needed for subvocalization.
  - d. these patients are unable to subvocalize.

ANS: C	DIF: Medium	REF: The Nature of the Working-Memory Evidence
OBJ: Applied	TOP: IIID2a	

52. Recent developments in brain-imaging technology can help us in cognitive psychology. For example, we can now tell exactly which parts of the brain are especially engaged in working-memory rehearsal. These techniques are the central sources of data for

	modeling. neuropsycholog	IV.		developmental imaging. cognitive neuroscience.
AN	IS: D J: Factual	DIF:	Medium IIID2b	The Nature of the Working-Memory Evidence

- 53. Evidence from neuroimaging studies suggests that subvocalization is MOST closely related to
  - a. speaking out loud, because the same muscles are used.
  - b. remembering a feeling.
  - c. visual imagery.
  - d. planning to speak, because some of the same brain regions are active, as in normal speech planning.

ANS:	D	DIF:	Difficult	REF:	The Nature of the Working-Memory Evidence
OBJ:	Factual	TOP:	IIID2b		

- 54. Cognitive psychology relies on evidence from multiple domains (behavioral, neuroscience, trauma, etc.) because
  - a. we cannot see the cognitive processes directly.
  - b. all evidence is good evidence.
  - c. converging evidence provides additional opportunities for predictions.
  - d. other sciences require evidence from many places.

ANS: ADIF: DifficultREF: The Nature of the Working-Memory EvidenceOBJ: AppliedTOP: IIID4

55. Working memory provides one example of how

- a. important memory is to cognition.
- b. cognitive processes are essential to most daily tasks.
- c. children develop memory.
- d. we could not function without a multicomponent system.

ANS: B	DIF: Easy	REF: Working Memory in a Broader Context
OBJ: Applied	TOP: IIIE	

#### ESSAY

1. Compare and contrast the introspection, behaviorist, and cognitive approaches to studying mental activities. Which approach do you find most compelling, and why?

ANS: Will Vary

DIF: Difficult REF: A Brief History OBJ: Conceptual TOP: II

2. Mikey is four years old and has begun acting out. Every time he throws a tantrum, his mother rushes over to console him. In analyzing this behavior, what sort of factors would most interest a behaviorist? On what factors would a cognitive psychologist using the transcendental method focus? What conclusions will each psychologist reach?

ANS: Will Vary

DIF:DifficultREF:The Years of Behaviorism | The Roots of the Cognitive RevolutionOBJ:ConceptualTOP:IIB | IIC

- 3. Describe how cognitive psychologists arrive at knowledge by answering the following questions about working memory.
  - a. Describe the multicomponent model of WM.

b. What is anarthia? What are the implications of this disorder for the multicomponent model of WM?

c. Describe one other source of knowledge, besides special populations, that can be used to evaluate the multicomponent model of WM.

ANS: Will Vary

DIF:DifficultREF:Research in Cognitive Psychology:An ExampleOBJ:ConceptualTOP:III

4. Imagine you are briefly presented with, and asked to memorize, the following letters for an immediate recall test: *Q*, *R*, *T*, *B*, *O*, *W*, *A*. How would you go about remembering those items? (Make sure you use appropriate terminology.) Now, imagine that you are given the same memory task but asked to say the word "the" while the letters are being presented. How would this second condition influence your mental behavior? What effect would it have on your performance?

ANS: Will Vary

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DIF: Difficult REF: Evidence for the Working-Memory System OBJ: Conceptual TOP: IIIC

5. Dr. Mnemonic conducted a study in which neural activity was measured (with fMRI) while participants were presented with either digits or abstract images to memorize. He found that the left temporal lobe was active when the digits were presented, and the right parietal lobe was active for the abstract images. Interpret these results in terms of the multicomponent model. Does it support this model or refute it? Why?

ANS: Will Vary

DIF: Difficult REF: The Nature of the Working-Memory Evidence OBJ: Conceptual TOP: IIID