## Principles of Learning and Behavior Active Learning Edition 6th Edition Domjan Test Bank

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KEY: Fact

MSC: WWW

## CHAPTER 2: Elicited Behavior, Habituation, and Sensitization

## **MULTIPLE CHOICE**

ANS: C

1. Which of the following is the simplest form of elicited behavior?

REF: Page 33

- a. the habitation response
- b. feedback stimuli
- c. reflexive behavior
- d. the sensitization process

- 2. Which two closely related events constitute a reflex?
  - a. eliciting outcome; corresponding reward
  - b. eliciting stimulus; corresponding response
  - c. eliciting response; corresponding outcome
  - d. eliciting response; corresponding reward

ANS: B REF: Page 33 KEY: Fact

- 3. What is the correct pathway of the neural signal in a reflex arc?
  - a. afferent neuron, efferent neuron, interneuron
  - b. efferent neuron, afferent neuron, interneuron
  - c. afferent neuron, sensory neuron, efferent neuron
  - d. afferent neuron, interneuron, efferent neuron

ANS: D REF: Page 34 KEY: Fact

- 4. Of the following, which is not a reflexive behavior?
  - a. a baby pulling away when its nose and mouth are covered
  - b. maintaining attention when driving
  - c. turning to the location of a loud noise
  - d. sneezing in response to dust

ANS: B REF: Page 34 KEY: Concept

- 5. Which of the following is true regarding the respiratory occlusion reflex?
  - a. It causes humans to hold their breath underwater.
  - b. It is a multistage response to a reduction of airflow.
  - c. It allows nursing to proceed when the nose is covered.
  - d. It causes an infant to orient towards the nipple.

ANS: B REF: Page 35 KEY: Fact

- 6. Which of the following is the incorrect statement about reflexive behaviors?
  - a. Most reflexes promote the well-being of the organism.
  - b. Simple reflexes are not influenced by higher nervous system functions.
  - c. Reflexes are the simplest form of elicited behavior.
  - d. The organization of the nervous system determines the specificity of the stimulus/response relationship.

ANS: B REF: Page 34 KEY: Fact

7. The respiratory occlusion response in babies begins with which of the following?

a. a swiping motion across the face; then the infant pulls away, then criesb. crying; then the infant pulls away, then swipes the facec. pulling the head back; then the infant swipes the face, then cries

d. pulling the head back; then the infant cries, then swipes the face

ANS: C REF: Page 35 KEY: Fact

8. Successful nursing requires practice because the baby normally does which of the following actions?

- a. habituates to the nipple
- b. becomes sensitized to the nipple
- c. may have a respiratory occlusion response
- d. has numerous taxis behaviors

ANS: C REF: Page 35 KEY: Concept

- 9. Which of the following is true regarding any given modal action pattern?
  - a. usually found in many species
  - b. involves species-specific responses
  - c. cannot be elicited by a stimulus found in the organism's usual environment
  - d. involves movement towards or away from a stimulus

ANS: B REF: Page 36 KEY: Fact MSC: WWW

- 10. Which of the following is not a modal action pattern?
  - a. the startle response of rats
  - b. the beak-pecking behavior of herring gull chicks
  - c. the nest building behaviors of male sticklebacks
  - d. the egg-retrieval behavior of herring gulls

ANS: A REF: Pages 36-37 KEY: Fact

- 11. Which of the following is one of the characteristics of a modal action pattern?
  - a. The eliciting stimulus is usually easy to identify.
  - b. They are species-specific response patterns.
  - c. The threshold for eliciting the behavior is relatively invariant.
  - d. The eliciting stimulus will have similar effects over different situations.

ANS: B REF: Page 37 KEY: Fact

- 12. Which of the following most correctly describes a sign stimulus?
  - a. first causes sensitization, then habituation
  - b. first causes habituation, then sensitization
  - c. sufficient for eliciting a modal action pattern
  - d. similar to an instinct

ANS: C REF: Page 37 KEY: Fact

- 13. Of the following, which is true of sign stimuli?
  - a. Sign stimuli release behaviors that are performed in the same way every time.
  - b. Sign stimuli characteristically release the same behavior across several species.
  - c. Researchers are unable to determine which sign stimuli release behaviors.
  - d. The optimal sign stimulus may not occur naturally.

ANS: D REF: Page 40 KEY: Fact

14. Appetitive behaviors are most correctly described by which of the following?

- a. activities that because of their vigor increase hunger
- b. early components of a behavior sequence
- c. activities that satisfy an appetite or drive
- d. end components of an organized sequence of behaviors

ANS: B REF: Page 39 KEY: Fact

- 15. Behaviors such as foraging for food in animals and cooking food in humans are classified as
  - a. consummatory behaviors.
  - b. releasing behaviors.
  - c. appetitive behaviors.
  - d. supranormal behaviors.

ANS: C REF: Page 39 KEY: Concept

- 16. Which of the following is likely to be the most stereotyped response?
  - a. a squirrel eating a walnut
  - b. a robin searching for a worm
  - c. a grandmother preparing a pie
  - d. a young man issuing a threatening gesture

ANS: A REF: Page 39 KEY: Concept

- 17. Which of the following describes the difference between a general search and a focal search?
  - a. General searches are localized, while focal searches focus on a larger area.
  - b. General searches occur when an animal does not yet know specifically where to look for food, while focal searches are spatially localized.
  - c. General searches are appetitive while focal searches are consummatory.
  - d. There are no differences; both terms are alternative ways of describing appetitive behavior.

ANS: B REF: Page 39 KEY: Concept

- 18. Which of the following is most likely to be characterized as an appetitive behavior?
  - a. a sparrow manipulating a seed in its beak
  - b. a woman drinking a glass of milk
  - c. a woodchuck chewing on a blade of grass
  - d. a chef preparing a cream pie

ANS: D REF: Page 39 KEY: Concept

- 19. Which of the following is the correct order in a foraging behavior sequence?
  - a. general search, food handling, focal search
  - b. focal search, general search, food handling
  - c. general search, focal search, food handling
  - d. food handling, focal search, general search

ANS: C REF: Page 39 KEY: Fact

- 20. Elicited behaviors are interesting to researchers studying learning because of which following result?
  - a. They are invariant and make good controls.
  - b. They are present in most animals except humans and provide clues to the evolution of behavior.
  - c. They do not occur the same way each time the eliciting stimulus is presented.
  - d. They allow for voluntary behavior in non-human animals.

ANS: C REF: Page 40 KEY: Concept

- 21. Your professor is conducting an investigation of visual attention in infants. A relatively complex pattern will be presented to the infants, hopefully eliciting visual attention. What do you predict will happen with repeated presentations of the complex visual stimulus?
  - a. The infants will show uniformly high levels of responding across all trials.
  - b. The infants will increase, then decrease, responding.
  - c. The infants will decrease, then increase, responding.
  - d. The infants will show a high level of responding on the first trial, then decreasing responding on subsequent trials.

ANS: B REF: Page 40 KEY: Concept MSC: WWW

- 22. Which of the following is true of visual attention in human infants?
  - a. All stimuli elicit similar responses across repeated presentations.
  - b. Infants initially increase responding to repeated presentations of complex stimuli and decrease responding to repeated presentations of simple stimuli.
  - c. Infants initially increase responding to repeated presentations of simple stimuli and decrease responding to repeated presentations of complex stimuli.
  - d. Infants increase responding to all stimuli as they become familiar with repeated presentations.

ANS: B REF: Page 43 KEY: Fact

- 23. According to one study using lemon and lime juice to investigate the role of familiarity of food and its rated pleasantness, which of the following is correct?
  - a. As we encounter a food over and over, we become familiar with it, and it increases in pleasantness.
  - b. As we repeatedly encounter a taste, it initially increases then decreases in pleasantness.
  - c. As we repeatedly encounter a taste, it initially decreases then increases in pleasantness.
  - d. Overeating may be discouraged by varying the foods that are available.

ANS: B REF: Page 40 KEY: Fact

- 24. The stabilimeter measures which of the following?
  - a. startle responses in rats
  - b. taxes in rats
  - c. kinesis in rats
  - d. orientation responses in rats

ANS: A REF: Page 46 KEY: Fact

- 25. Which of the following is a true statement about habituation?
  - a. increases responsiveness to a stimulus with repeated presentations
  - b. decreases responsiveness to a stimulus with repeated presentations
  - c. either increases or decreases responsiveness to a stimulus with repeated presentations, depending on the background cues
  - d. both increases and decreases responsiveness to a stimulus with repeated presentations

ANS: B REF: Page 48 KEY: Fact

- 26. Repeated presentation of a stimulus will cause which of the following?
  - a. both habituation and sensitization effects
  - b. either habituation or sensitization effects, depending on the subject's level of arousal
  - c. only habituation effects or only sensitization effects, regardless of background conditions

	d. invariant behavio	or chang	ges if it is a true	e eliciting stimulus	
	ANS: C	REF:	Page 51	KEY: Concept	
27.	Habituation and sense.  a. Focus attention of the control of the c	on all st s to all s on back	imuli present. timuli present. ground stimuli.	m which of the following functions?	
	ANS: D	REF:	Page 51	KEY: Fact	
28.	A loud tone is repeatedly presented to a group of rats. Initially, there is a large startle response that decreases across trials. The response decrease across trials may be due to  a. habituation.  b. fatigue.  c. sensory adaptation.  d. All of the above				
	ANS: D	REF:	Page 52	KEY: Concept	
29.	Repeated presentation decreases across trial a. response fatigue b. sensory adaptation. d. sensitization.	ls. This		make the skin receptors less sensitive, and responding of	
	ANS: B	REF:	Page 52	KEY: Fact	
30.	a. Repeated actions	s cause in c	muscles to temp system hinder t	ransmission of neural impulses.	
	ANS: A	REF:	Page 52	KEY: Fact	
31.	Sensory adaptation of a. the nervous system b. the sense organ c. the muscle tissue d. the interneuron	em	n which of the f	following physiological areas?	
	ANS: B	REF:	Page 52	KEY: Fact	
32.	Fatigue occurs in what at the nervous system.  b. the sense organ c. the muscle tissued. the interneuron	em	he following ph	nysiological areas?	
	ANS: C	REF:	Page 52	KEY: Fact	
33.	To rule out response presentations of a sti			r the decreased responding that occurs over repeated	

	determine if the subject can still sense the stimulus. determine if the subject is responding to the stimulus in other ways. present a new stimulus that elicits a similar response. present a new stimulus that elicits an unrelated response.							
	ANS: C	REF:	Page 53	KEY:	Concept			
34.	A bright light cause because the subject a. habituation. b. sensitization. c. sensory adaptated. habituation.	was tem						response
	ANS: C	REF:	Page 52	KEY:	Concept			
35.		ervous s ervous s ensory r	ystem that hind ystem that faci	der trans	smission from s	ensory	of the following? to motor neurons ry to motor neuron	ıs
	ANS: C	REF:	Page 52	KEY:	Fact	MSC:	WWW	
36.	<ul> <li>The dual-process the</li> <li>a. One neural process timulation.</li> <li>b. Different types responsiveness</li> <li>c. Habituation and</li> <li>d. Habituation is described.</li> </ul>	ess is re- of neural to stimul sensitiz	sponsible for in mechanisms a ation. ation effects ar	ncreases are respo e essent	and decreases on sible for increases in the same.	-		
	ANS: B	REF:	Page 53	KEY:	Fact			
37.	<ul> <li>Which of the follow</li> <li>a. Different process stimulation.</li> <li>b. The habituation</li> <li>c. The habituation</li> <li>d. The sensitization</li> </ul> ANS: B	and sense effect is	assumed to und sitization proce not a direct ref	erlie ind esses are flection eflection	mutually exclusion of the habituation of the sensitizen	isive. on proc		0
38.	According to Grove a. Habituation and b. Habituation is s c. Habituation is s d. Both habituation	sensitiz imilar to imilar to	ation processes fatigue; sensiti adaptation; ser	occur i ization i nsitizati	n different part s similar to ada on is similar to	s of the ptation fatigue	nervous system.	
	ANS: A	REF:	Pages 53-54	KEY:	Fact			
39.	Habituation process a. state; sensory b. S-R; S-S c. S-R; state d. state; S-S	es occur	in thes	ystem. S	Sensitization pro	ocesses	occur in the	_ system.

ANS: C REF: Page 54 KEY: Fact 40. Habituation is to sensitization as a. motor is to sensory. b. S-R is to state. c. S-S is to S-R. d. state is to S-S. ANS: B REF: Page 54 KEY: Concept MSC: WWW 41. The dual-process theory suggests which of the following? a. Habituation processes occur in parts of the nervous system that determine the organism's general level of responsiveness. b. Habituation processes occur in the shortest neural path between sense organs and muscles. c. Habituation and sensitization processes occur in the parts of the nervous system that determine the organism's general level of responsiveness. d. Habituation and sensitization processes determine the animal's general readiness to respond. ANS: B REF: Page 55 KEY: Concept 42. According to the dual-process theory, when rats were tested with a relatively quiet background noise, their response to a startling tone a. habituated because the state system was already responding to auditory stimuli. b. habituated because only the S-R system was activated. c. sensitized because the state system was responding to the background tone. d. sensitized because both the state and S-R systems were activated. ANS: B REF: Page 48 KEY: Fact 43. Why would the same tone result in habituation for rats exposed to a low level background noise and sensitization for rats exposed to high level background noise? a. Only the high level background noise masked the tone. b. Only the low level background noise masked the tone. c. The low level background noise and tone combination activated the state and S-R system. d. The high level background noise and tone combination activated the state and S-R system. KEY: Concept ANS: D REF: Page 48 44. According to the dual-process theory, each presentation of a given stimulus activates a. both the state and S-R systems. b. the state system and may activate the S-R system. c. the S-R system. d. the state system. KEY: Fact ANS: C REF: Page 55 45. The time course of sensitization is determined by a. the S-R system. b. the intensity of the stimulus. c. the long-term mechanism. d. None of the above; sensitization effects are all short-term. ANS: B REF: Page 49 KEY: Fact

- 46. The dual-process theory can account for qualitative differences a. between short-term and long-term habituation. b. between sensitization and long-term habituation. c. between sensitization and short-term habituation. d. among sensitization, short-term habituation, and long-term habituation. ANS: C REF: Page 51 KEY: Fact 47. Repeated presentations of a stimulus a. result in short-term and long-term habituation effects. b. result in long-term habituation effects only. c. result in spontaneous recovery if enough time passes. d. None of these ANS: D REF: Page 51 KEY: Fact 48. After you habituate to the sound of one clock's chime, you may not respond to the chime of another clock. This is due to a. stimulus specificity. b. stimulus generalization. c. long-term habituation effects. d. spontaneous recovery. ANS: B REF: Page 51 KEY: Concept 49. Spontaneous recovery from habituation occurs a. after time passes. b. after a strong extraneous stimulus is presented. c. after a weak extraneous stimulus is presented. d. All of the above REF: Page 51 ANS: A KEY: Fact 50. The stimulus specificity of sensitization is \_\_\_\_\_ that of habituation. a. less than b. greater than c. either less than or greater than (depending on the stimulus) d. equal to ANS: A REF: Page 51 KEY: Fact 51. Pain caused by foot-shock sensitizes rats to a. auditory cues only. b. visual cues only. c. auditory and visual cues. d. all cues. ANS: C REF: Page 55 KEY: Concept 52. In Aplysia, habituation of the gill withdrawal effect due to stimulation of the siphon a. has no effect on the response to stimulation of the mantle. b. increases the effect of stimulating the mantle.
  - ANS: A REF: Pages 56-57 KEY: Fact

d. completely attenuates responding to stimulation of the mantle.

c. decreases the effect of stimulating the mantle.

- 53. Applying a shock to the tail of the *Aplysia* 
  - a. has no effect on the responses to stimulation of the siphon or mantle.
  - b. increases responding to stimulation of the mantle but not the siphon.
  - c. increases responding to stimulation of the siphon but not the mantle.
  - d. increases responding to stimulation of both the siphon and mantle.

ANS: D REF: Pages 56-57 KEY: Fact

- 54. In *Aplysia*, the role of the facilitory interneuron is to
  - a. increase sensitivity of the motor neuron.
  - b. increase the release of neurotransmitter from the sensory neuron.
  - c. decrease the sensitivity of the motor neuron.
  - d. decrease the release of neurotransmitter from the motor neuron.

ANS: B REF: Pages 56-57 KEY: Fact

- 55. Habituation in the Aplysia occurs due to
  - a. changes in the facilitory interneuron.
  - b. changes in the sensitivity of the motor neuron.
  - c. changes in the amount of neurotransmitter released by the sensory neuron.
  - d. changes in the action potential of the sensory neuron.

ANS: C REF: Pages 56-57 KEY: Fact

- 56. Sensitization in the *Aplysia* occurs due to
  - a. engagement of the facilitory interneuron.
  - b. changes in the sensitivity of the motor neuron.
  - c. changes in the sensitivity of the sensory neuron
  - d. changes in the action potential of the sensory neuron.

ANS: A REF: Pages 56-57 KEY: Fact

- 57. The opponent-process theory assumes
  - a. the a process is inefficient.
  - b. the *b* process is inefficient.
  - c. the a and b processes are inefficient.
  - d. the a and b processes are independent.

ANS: B REF: Page 60 KEY: Fact

- 58. An emotion-arousing stimulus elicits
  - a. emotion after-effects directly.
  - b. the *a* process directly.
  - c. the *b* process directly.
  - d. the *a* and *b* processes directly.

ANS: B REF: Page 60 KEY: Fact

- 59. According to the opponent-process theory, drug tolerance develops because
  - a. the *a* process weakens.
  - b. the *b* process weakens.
  - c. the *a* process strengthens.
  - d. the *b* process strengthens.

ANS: D REF: Page 61 KEY: Concept

- 60. The opponent-process theory predicts that couples who have spent many years together
  - a. become bored and enjoy time apart.
  - b. become increasingly affectionate.
  - c. become resentful if the other partner leaves, even for a short time.
  - d. will show few overt signs of affection.

ANS: D REF: Pages 62-63 KEY: Fact

- 61. The opponent-process theory suggests that alcoholics continue drinking to
  - a. avoid opponent after-effects.
  - b. increase opponent after-effects.
  - c. enjoy the primary pleasurable effects.
  - d. enjoy the secondary pleasurable effects.

ANS: A REF: Pages 62-63 KEY: Concept

- 62. Your friend is surprised by his grandmother's reaction to the unfortunate passing of her husband. Although for years she had shown her husband no overt signs of affection, his death has left her devastated. You explain to your friend that according to the opponent-process theory this change is due to
  - a. a new *a* process activated by the funeral.
  - b. a new b process activated by the funeral.
  - c. the removal of the a process associated with her husband.
  - d. the removal of the *b* process associated with her husband.

ANS: C REF: Pages 61-63 KEY: Concept

- 63. Goal-directed behavior that brings about a desirable outcome
  - a. is considered largely immune from habituation and sensitization effects.
  - b. will show habituation, but not sensitization effects.
  - c. will show sensitization, but not habituation effects.
  - d. will show many of the properties common to habituation and sensitization.

ANS: D REF: Pages 63-64 KEY: Fact

## **SHORT ANSWER**

1. Explain how the same reflex can both promote and interfere with the well being of an organism.

ANS:

Answer not provided

2. What factors influence the elicitation of a modal action pattern?

ANS:

Answer not provided

3. What is the difference between a modal action pattern and a simple general reflex? Provide an example of each.

ANS:

Answer not provided

	ANS: Answer not provided
5.	Discuss the importance of behavioral sequences. What role do appetitive and consummatory behaviors play in organizing behavior? How do general search, focal search, and consummatory behaviors differ? Provide examples of each.
	ANS: Answer not provided
6.	Compare and contrast habituation and sensitization effects. Include descriptions of the time course and stimulus specificity of each.
	ANS: Answer not provided
7.	How does the dual-process theory account for habituation effects? Sensitization effects?
	ANS: Answer not provided
8.	Explain why repeated presentations of the same stimulus can elicit responses that decrease in one group of subjects and increase in another group of subjects.
	ANS: Answer not provided
9.	Describe how researchers ensure that fatigue and sensory adaptation are not the cause of response decrements in experiments investigating habituation.
	ANS: Answer not provided
10.	Explain the role of the S-R and state systems in elicited behaviors.
	ANS: Answer not provided
11.	How can a response that has decreased through habituation to the eliciting stimulus be reinstated? Describe two methods.
	ANS: Answer not provided
12.	What is the biphasic pattern of emotional responses? Apply this concept in the description of a common human experience.
	ANS: Answer not provided

4. Describe how a researcher can determine which stimulus features elicit modal action patterns.

13.	Compare the dual-process theory to the opponent-process theory of motivation. What is the goal of each theory? What similarities do you notice in the mechanisms? Differences? How does each account for habituation effects?
	ANS: Answer not provided
14.	Describe the opponent-process theory of motivation. Using an example from common human experience, demonstrate how the mechanisms of the theory account for an overt response.
	ANS: Answer not provided
15.	How does the opponent-process theory of motivation explain drug tolerance and addictive behaviors? What is the evidence for the underlying mechanisms?
	ANS: Answer not provided
16.	Describe how elicited behavior can be involved in complex social interactions, like breast feeding.
	ANS: Answer not provided
17.	Describe sign stimuli involved in the control of human behavior.
	ANS: Answer not provided
18.	Compare and contrast appetitive and consummatory behavior, and describe how these are related to general search, focal search, and food handling.
	ANS: Answer not provided
19.	Describe components of the startle response and how the startle response may undergo sensitization.
	ANS: Answer not provided
20.	Describe the distinction between habituation, sensory adaptation, and fatigue.
	ANS: Answer not provided
21.	Describe the two processes of the dual-process theory of habituation and sensitization and the differences between these processes.
	ANS: Answer not provided
22.	Describe how habituation and sensitization are involved in emotion regulation and drug addiction.
	ANS:

	Answer not provided			navior-active-learning-edi	
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