# Learning and Behavior 7th Edition Mazur Test Bank

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### **CHAPTER 2**

#### INNATE BEHAVIOR PATTERNS AND HABITUATION

- 1. In the terminology of control systems theory, the setting on a house's thermostat can be called
  - a. the comparator
  - b. the reference input
  - c. the actual input
  - d. the action system

Page(s): 27-28 Type: factual

Answer: b

- 2. When you quickly pull your hand away from a painful stimulus, this reflex
  - a. does not involve a feedback loop
  - b. is controlled by the brain's cerebral cortex
  - c. involves sensory neurons, interneurons, and motor neurons
  - d. all of the above

Page(s): 28-29 Type: factual

Answer: c

- 3. In control systems theory, the action system is activated
  - a. when the actual input does not match the reference input
  - b. when the comparator is turned off
  - c. when there is no disturbance
  - d. when there is no output

Page(s): 27-28 Type: factual

Answer: a

- 4. Unlike a kinesis, a taxis is
  - a. an example of a tropism
  - b. a movement or change in orientation of the entire organism
  - c. a learned behavior
  - d. a directed movement

Page(s): 30 Type: factual

Answer: d

- 5. In applying the terminology of control systems theory to the humidity-seeking behavior of the wood louse, the humidity level in the creature's current location can be called
  - a. the actual input
  - b. the reference input
  - c. a disturbance
  - d. the output

Page(s): 30 Type: conceptual

Answer: a

- 6. In applying the terminology of control systems theory to the humidity-seeking behavior of the wood louse, the goal of finding an area with high humidity can be called
  - a. the actual input
  - b. the reference input
  - c. a disturbance
  - d. the output

Page(s): 30 Type: conceptual

Answer: b

- 7. A fixed-action pattern
  - a. will stop immediately if the behavior is not appropriate for the situation
  - b. is a sequence of behaviors that occur in a rigid order
  - c. both a and b d. neither a and b

Page(s): 30-31 Type: conceptual

Answer: b

- 8. In humans, contagious yawning is an example of a
  - a. kinesis
  - b: taxis
  - c. fixed action pattern
  - d. reaction chain

Page(s): 31 Type: conceptual

Answer: c

- 9. A male stickleback will be aggressive toward other male sticklebacks that invade its territory. Of the following, which will tend to elicit the strongest aggressive response?
  - a. a female stickleback
  - b. an object that has the rough shape of a stickleback
  - c. an object that has a red patch on the bottom
  - d. a fish of another species

Page(s): 31-32 Type: conceptual

Answer: c

- 10. A reaction chain differs from a fixed action pattern in that it
  - a. is innate
  - b. is a sequence of behaviors
  - c. is more adaptive to the current environmental conditions
  - d. may be found in only one species

Page(s): 32 Type: conceptual

Answer: c

- 11. A reaction chain
  - a. consists of an alternating sequence of stimuli and responses
  - b. is innate
  - c. both a and b
  - d. neither a nor b

Page(s): 32-33 Type: conceptual

Answer: c

- 12. To support the theory that language is an innate human ability, researchers have shown that
  - a. a specific part of the human brain is essential for speech
  - b. a specific part of the human brain is essential for language comprehension
  - c. human languages throughout the world have certain features in common
  - d. all of the above

Page(s): 34 Type: factual

Answer: d

- 13. Ekman's research on facial expression of emotions has found that
  - a. animals and people express emotions in similar ways
  - b. children learn to recognize the emotional expressions of adults in their first year of life
  - c. adults can recognize emotions such as happiness or surprise in the face of a person from a different culture

d. all of the above

Page(s): 34 Type: factual

Answer: c

- 14. To qualify as a "human universal," a behavior must
  - a. be innate
  - b. be found in human cultures throughout the world
  - c. look exactly the same in human cultures throughout the world
  - d. all of the above

Page(s): 35 Type: conceptual

Answer: b

- 15. Habituation
  - a. can be observed in some one-celled organisms
  - b. can occur in the orienting response
  - c. can exhibit stimulus generalization
  - d. all of the above

Page(s): 36-38 Type: factual

Answer: d

- 16. The habituation of a response to a very strong stimulus
  - a. will proceed rapidly
  - b. will proceed slowly
  - c. will not exhibit generalization
  - d. will not exhibit overlearning effects

Page(s): 37 Type: factual

Answer: b

- 17. A loud noise is repeatedly presented to a rat, and after 20 trials the rat's startle reaction has completely disappeared (habituated). If a slightly different noise is now presented, it is most likely that
  - a. there will be no startle reaction at all
  - b. there will be no habituation to this new stimulus
  - c. habituation of the startle reaction will take more than 20 trials
  - d. habituation of the startle reaction will take less than 20 trials

Page(s): 38 Type: applied

Answer: d

- 18. Kandel's research on Aplysia has shown that the physiological network underlying the gill-withdrawal reflex
  - a. involves single synapses between sensory neurons and motor neurons
  - b. involves two synapses: between sensory neurons and interneurons, and between interneurons and motor neurons
  - c. both a and b
  - d. neither a nor b

Page(s): 39-40 Type: factual

Answer: b

- 19. Kandel's research on Aplysia has shown that the habituation of the gill-withdrawal response
  - a. always occurs in a single trial
  - b. dissipates with time
  - c. is completely different from habituation in higher organisms
  - d. all of the above

Page(s): 39-40 Type: factual

Answer: b

- 20. Kandel's research on Aplysia has shown that the habituation of the gill-withdrawal response
  - a. is caused by a decrease in the sensitivity of the motor neurons to transmitter released by the sensory neurons
  - b. is caused by a decrease in the amount of transmitter released by the sensory neurons
  - c. is caused by an increase in the amount of transmitter released by the sensory neurons
  - d. is caused by an increase in the activity of interneurons

Page(s): 39-40 Type: factual

Answer: b

- 21. Overlearning in habituation (or below-zero habituation) can occur if
  - a. habituation trials continue after the response has disappeared
  - b. habituation trials are widely spaced over time
  - c. an intense stimulus is used
  - d. several different stimuli are used

Page(s): 37-38 Type: factual

Answer: a

- 22. Which of the following statements is <u>not</u> an accurate summary of the findings from research on habituation in mammals?
  - a. Short-term and long-term habituation may involve different brain pathways.
  - b. Cells in the auditory cortex may "habituate" to tones of specific pitches.
  - c. The startle response habituates if a loud noise is presented repeatedly.
  - d. Habituation is most evident in the later (motor) portions of the startle response pathway.

Page(s): 41 Type: conceptual

Answer: d

- 23. In the Solomon and Corbit opponent-process theory, the a-process is said to be
  - a. a pleasant emotional reaction
  - b. an unpleasant emotional reaction
  - c. unaffected by repeated trials
  - d. slow to reach its maximum level

Page(s): 42-43 Type: conceptual

Answer: c

- 24. In the Solomon and Corbit opponent-process theory, the b-process is said to be
  - a. a pleasant emotional reaction
  - b. an unpleasant emotional reaction
  - c. unaffected by repeated trials
  - d. slow to reach its maximum level

Page(s): 42-43 Type: conceptual

Answer: d

- 25. According to opponent-process theory, in parachute jumping the strengthening of the b-process over trials
  - a. causes the individual to be less terrified with experience
  - b. causes the aftereffects of a jump to last longer with experience
  - c. both a and b
  - d. neither a nor b

Page(s): 45 Type: applied

Answer: c

- 26. According to opponent-process theory, opiate addiction is so difficult to end because
  - a. the a-process is strengthened with repeated opiate use
  - b. the aversive b-process can be temporarily reduced with another opiate injection
  - c. both a and b

d. neither a nor b

Page(s): 46 Type: conceptual

Answer: c

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### **Short Essay Questions**

- 27. Describe the basic concepts of control systems theory, and illustrate them using a concrete example of a closed-loop feedback system, either animate or inanimate. Pages 27-28.
- 28. Describe the spinal reflex arc, and explain how feedback is involved in this simple reflex. Pages 28-29.
- 29. What properties do kineses and taxes have in common, and how do they differ? Give one example of each. Pages 29-30.
- 30. Discuss one example of an innate behavior pattern that is initiated by a sign stimulus. For this particular behavior pattern, which characteristics of the stimulus are most important in eliciting the response, and which are not? Pages 31-32.
- 31. Describe an experiment that offers strong evidence that a squirrel's nut-burying behavior is innate, not learned. Page 31.
- 32. In what sense are reaction chains more adaptable than fixed action patterns? Give a concrete example to illustrate this adaptability Pages 32-33.
- 33. Describe some of the evidence supporting the view that language is an innate human ability. Page 34.
- 34. What have psychologists learned about how people's emotions are expressed in facial expressions, and how others interpret these expressions? Page 34.
- 35. Define the concept of a "human universal," and give some examples. Page 35.
- 36. Describe <u>four</u> general principles of habituation--properties that are found across a wide range of species. Pages 35-36.
- 37. Explain how psychologists can use the phenomenon of habituation to study the perceptual abilities of infants. Page 38.
- 38. Explain why some researchers have chosen to study habituation in simple creatures such as *Aplysia*. What are the advantages and disadvantages of using such simple organisms? Pages 39-40.
- 39. Briefly describe the neural pathways involved in the gill-withdrawal response in *Aplysia*. What changes take place in this system during habituation of the gill-withdrawal response? Pages 39-40.
- 40. Describe research on the physiological basis of habituation in mammals. In what ways are the findings similar to those from *Aplysia*, and in what ways are they different? Page 40-41.
- 41. Describe the temporal pattern of a typical emotional response, according to the opponent-process theory of Solomon and Corbit. What underlying processes are hypothesized to be involved, and how do they change with repeated presentations of the same stimulus? Pages 42-44.
- 42. Show how the Solomon and Corbit opponent-process theory has been applied to drug addiction. Use this theory to account for the different reactions experienced by a first-time user and an experienced user. Page 45.