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## **Chapter 1--Introduction: Learning to Change**

*Student:* \_\_\_\_\_

- 1. The author of your text evidently believes that \_\_\_\_\_.
- A. change is a good thing
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- C. adaptation occurs slowly
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- 3. Darwin's theory of evolution has been around for about \_\_\_\_\_.
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- A. Peter and Rosemary Grant
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6. The gollypod, a fictitious aquatic animal, breaks out in a cold sweat whenever exposed to the sun. This reaction is most likely \_\_\_\_\_.

A. a reflex

- B. a fixed action pattern
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- A. Buckminster Fuller
- B. Virgil
- C. Lucretius
- D. Einstein
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- A. genes
- B. stimuli
- C. releasers
- D. reflexes

11. The chief advantage of learning over natural selection as a means of adapting to change is that learning

- A. is faster
- B. is more enduring
- C. is less enduring
- D. does not affect all members of a species

- 12. The experiments of Harlow and Harlow demonstrated that how monkeys are reared \_\_\_\_\_.
- A. has little effect on their behavior later in life
- B. can have a profound effect on their behavior later in life
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- D. can improve their mental health
- 13. The phenomenon that is nearly the opposite of habituation is \_\_\_\_\_.
- A. dehabituation
- B. inhabituation
- C. stabilization
- D. sensitization

14. The person who demonstrated that the marching of tropical army ants is not intelligent behavior is \_\_\_\_\_.

- A. Schneirla
- B. Schneider
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- A. has gotten shorter in recent years
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- B. Freud
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- 17. In her study of baboons, Shirley Strum found that the most successful males were \_\_\_\_\_.
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B. modal action pattern

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19. Natural selection is often \_\_\_\_\_.

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20. Learning is an evolved \_\_\_\_\_.

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21. According to David Buss, the work of Gregor Mendel \_\_\_\_\_.

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B. had little or no influence on Darwin's thinking

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30. Learning is

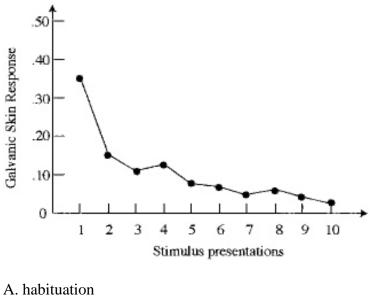
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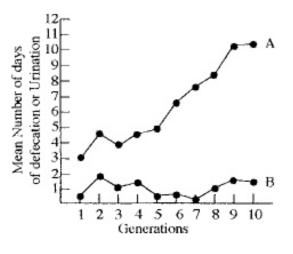
- C. the acquisition of new behavior.
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- 31. Experience refers to \_\_\_\_\_.
- A. mental states
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32. An \_\_\_\_\_ is something an organism tries to escape or avoid.

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- B. adversive
- C. adhesive
- D. adenoid
- 33. The figure below most likely illustrates \_\_\_\_\_.



A. habituation B. sensitization C. a FAP D. insurgence



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- B. fearfulness and heredity
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35. In the fox-breeding experiment, researchers selectively mated foxes that displayed \_\_\_\_\_ behavior.

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- 40. \_\_\_\_\_ refers to modal action patterns as complex reflexes.
- A. Gregor Mendel
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41. Steven says that he was very nervous when he first attended college classes, but now he feels quite relaxed. Steven's loss of anxiety is most likely an example of \_\_\_\_\_.

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43. A thumbtack stuck in a bulletin board several feet away is less likely to affect your behavior than a thumbtack placed on the chair on which you are sitting. Even though both examples involve a thumbtack, the second is more likely to qualify as a \_\_\_\_\_.

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44. Natural selection helps the individual adapt to changes in its environment. True False

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------	-------

53. As far as the study of learning is concerned, experience refers primarily to events that take place inside the person.

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54. Your text views learning as a change in the brain that is represented in behavior. True False

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58. Darwin founded his theory of evolution on the work of Gregor Mendel. True False

59. Repeated exposure to a stimulus that evokes a reflex response results in \_\_\_\_\_.

60. The dispute over the relative importance of genetics and learning is often called the \_\_\_\_\_\_ debate.

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67. Why is natural selection helpful to species, but not to individuals?

68. How are reflexes, modal action patterns, and general behavior traits alike? How are they different?

69. The phrase "survival of the fittest" is often interpreted to mean that natural selection is the result of a kind of combat. What would be a more accurate interpretation of the phrase?

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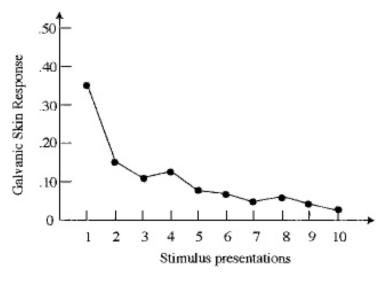
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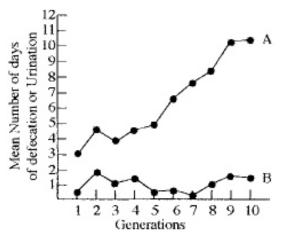
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<u>A.</u> stimulus

B. contiguous relation

- C. contingency
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44. Natural selection helps the individual adapt to changes in its environment.  $\underline{FALSE}$ 

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46. All reflexes contribute to survival. **FALSE** 

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### FALSE

49. A major problem with natural selection as an adaptive mechanism is that it is slow. **TRUE** 

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57. The word stimulus always refers to events in an organisms surroundings.  $\underline{\textbf{FALSE}}$ 

58. Darwin founded his theory of evolution on the work of Gregor Mendel. **FALSE** 

60. The dispute over the relative importance of genetics and learning is often called the \_\_\_\_\_\_ debate.

### nature-nurture

#### 

62. \_\_\_\_\_, like natural selection, is a biological mechanism for adapting to change. Learning

63. Learning is a/an \_\_\_\_\_ in \_\_\_\_\_ due to \_\_\_\_\_. change; behavior; experience

64. A stimulus is an environmental event that is capable of affecting \_\_\_\_\_\_. **behavior** 

65. The brown-headed cowbird puts its eggs in other birds' nests. This is an example of a/an

**modal action pattern** or **fixed action pattern** or **instinct** 

66. Explain the role of mutations in evolution.

The answer should indicate that mutations provide new variations which, if adaptive, will be selected.

67. Why is natural selection helpful to species, but not to individuals?

This point is covered in the query on p. 22 of the text. Students should note that natural selection produces changes across generations, not within a given individual.

68. How are reflexes, modal action patterns, and general behavior traits alike? How are they different?

This question appears as item 13 in the list of review questions. Answers should note that all three are "hard wired" or "programmed" into the genes, and differ chiefly in the degree to which they vary and in the degree to which they are elicited by specific environmental events. For example, reflexes are less variable than inherited behavior traits, with fixed action patterns falling between the two.

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69. The phrase "survival of the fittest" is often interpreted to mean that natural selection is the result of a kind of combat. What would be a more accurate interpretation of the phrase?

This question is hinted at in review question number 4 about the field mouse. The "fittest" individuals are those most likely to produce young that survive and reproduce. Survival of the fittest does not mean survival of the strongest or most savage, but those most likely to produce offspring that reach reproductive age.

70. What was Bertrand Russell's point when he noted that it is philosophers, not protozoans, who assure us that humans are superior to other animals.

This question refers to the box on page 29. Russell was suggesting that judgment about the superiority of a particular species must necessarily be made from the biased perspective of the species making the judgment. Through the eyes of a baboon, the baboon might be the highest form of animal life.