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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 B. behavior is best accounted for by nature C. adaptation occurs slowly D. learning is a way of adapting to change
2.	Variation and natural selection are the foundations of
	A. genetics B. evolution C. learning D. adaptation
3.	Darwin's theory of evolution has been around for about
	A. 50 years B. 75 years C. 150 years D. 200 years
4.	Chapter 1 includes a box called <i>The Face of Change</i> . One point the essay makes is that
	 A. many changes in our lives are imperceptible B. change means progress C. faces are recognizable even though they change D. learning means changing
5.	The role of natural selection in the beaks of finches was the subject of research by
	A. Peter and Rosemary Grant B. Harry and Margaret Harlow C. Lee Cronk D. Richard Dawkins
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 C. a general behavior trait D. the result of learning

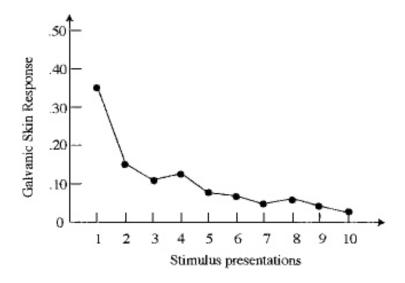
7.	Teenagerus Americanus, a two-legged ape indigenous to North America, breaks out in a cold sweat whenever exposed to elevator music. This reaction is most likely
	A. a reflex B. a fixed action pattern C. a general behavior trait D. learned behavior
8.	The tendency of some animals to hoard food is probably an example of
	A. a reflex B. a fixed action pattern C. a general behavior trait D. learned behavior
9.	The quotation, "Change is the only constant," is attributed to
	A. Buckminster FullerB. VirgilC. LucretiusD. Einstein
10.	Modal action patterns are induced by events called
	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 C. has no effect on adult sexual activity 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 C. Schneidman D. Schneirman
15.	The list of alleged human fixed action patterns
	 A. has gotten shorter in recent years B. has gotten longer in recent years C. has remained about the same over the years D. is longer for pre-industrialized peoples than for those living in industrialized nations
16.	One person who raised doubts about the incest taboo is
	A. Grant B. Freud C. Wilson D. McDougall
17.	In her study of baboons, Shirley Strum found that the most successful males were
	 A. offspring of dominant females B. bigger than other males C. less aggressive than other males D. the youngest
18.	The brown-headed cowbird deposits its eggs in the nests of other birds. This is most likely a
	A. reflex B. modal action pattern C. general behavior trait D. learned behavior
19.	Natural selection is often
	A. ahead of the times B. behind the times C. up with the times D. under the times

20.	Learning is an evolved
	A. selectivity B. modifiability C. biology D. karma
21.	According to David Buss, the work of Gregor Mendel
	A. required mathematical skills Darwin lacked B. had little or no influence on Darwin's thinking C. is irrelevant to evolution D. was done 40 years after Darwin's death
22.	Behavior is anything an animal or person does that can be
	A. seen B. described C. attributed to physical events D. measured
23.	Natural selection is illustrated by changes in the coloration of the Peppered Moth resulting from
	 A. industrial pollution B. drought C. loss of habitat D. long term changes in the hydraulic cycle
24.	Most mutations
	A. are not helpful to survival B. contribute to survival in important ways C. cause monsterism D. occur in one-celled organisms
25.	Keltner and Anderson suggest that may protect us from injury by appeasing others we have offended.
	A. crying B. sighing C. yawning D. blushing
26.	A reflex is
	 A. any very simple behavior B. a simple response to a simple event C. a relationship between an event and a simple response D. a purely physiological phenomenon

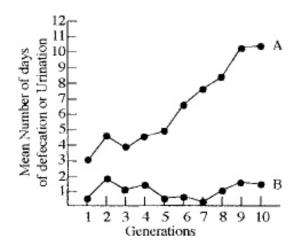
27. There is evidence that the rate of in fetuses is correlated with intellectual development after birth.
A. mutagenesis B. sensitization C. habituation D. FAPs
28. The rooting of pigs (for worms, larvae, and truffles) is an example of a
A. MAP B. reflex C. general behavior trait D. learned behavior
29. The color is a releaser for aggression in the male stickleback.
A. green B. blue C. yellow D. red
30. Learning is
A. a change in behavior.B. an improvement in performance.C. the acquisition of new behavior.D. a cognitive change that may be reflected in changes in behavior.
31. Experience refers to
A. mental states B. our surroundings C. events that affect behavior D. things we live through
32. An is something an organism tries to escape or avoid.
A. aversive B. adversive C. adhesive D. adenoid

33. The figure below most likely illustrates _____.



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

34. The best title for the figure below is _____.



- A. diet and heredity
- B. fearfulness and heredity
- C. addiction and heredity
- D. aggressiveness and heredity

35.	In the fox-breeding experiment, researchers selectively mated foxes that displayed behavior.
	A. aggressive B. intelligent C. dog-like D. habituated
36.	Lee Cronk wrote an article on how evolved behavior can prove nonadaptive when the environment changes. The article was called
	A. Old Dogs, Old Tricks B. The Once and Future King C. Murder Most Fowl D. History Recalled
37.	poked fun at the human tendency to see itself as the crowning achievement of evolution.
	A. Charles Darwin B. Gregor Mendel C. Bertrand Russell D. Alexander Pope
38.	Zing Yang Kuo found that 86% of kittens that saw their mothers kill rats later killed rats themselves. He also found that of kittens that never saw their mothers kill rats later killed rats themselves.
	A. 87% B. 73% C. 65% D. 45%
39.	Hart and Risley did a longitudinal study of the influence of the home verbal environment on children from different socioeconomic backgrounds. They found that
	A. children whose parents talked to them a lot later scored lower on IQ tests B. children whose parents talked to them a lot later scored higher on IQ tests C. the amount of parental talk was unrelated to later IQ scores D. the influence of parental language depended on parental income.
40.	refers to modal action patterns as complex reflexes.
	A. Gregor Mendel B. Charles Darwin C. Zing Yang Kuo D. Howard Rachlin

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			
	A. learning B. disease C. maturation D. fatigue			
42.	Your text defines behavior as anything an organism does that can be			
	A. measured B. tested C. inferred D. accounted for			
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			
	A. stimulus B. contiguous relation C. contingency D. response			
44.	Natural selection helps the individual adapt to changes in its environment.			
	True False			
45.	Reflexes are generally less variable than modal action patterns.			
	True False			
46.	All reflexes contribute to survival.			
	True False			
47.	Darwin believed that there were no human instincts.			
	True False			
48.	Research on the sexual orientation of sisters of lesbian women demonstrated that homosexuality is an inherited characteristic.			
	True False			
49.	A major problem with natural selection as an adaptive mechanism is that it is slow.			
	True False			

50.	Natural selection helps the species to adapt to change, not the individual.		
	True	False	
51.	The ev	volution of most species is now complete.	
	True	False	
52.		bly the reason the world seems relatively stable is that we don't live long enough to see many c changes.	
	True	False	
53.	As far the per	as the study of learning is concerned, experience refers primarily to events that take place inside rson.	
	True	False	
54.	Your t	text views learning as a change in the brain that is represented in behavior.	
	True	False	
55.	Learni	ing always involves the acquisition of new behaviors.	
	True	False	
56.	It is so	ometimes difficult to say whether an event is behavior or physiology.	
	True	False	
57.	The w	ord stimulus always refers to events in an organisms surroundings.	
	True	False	
58.	Darwi	n founded his theory of evolution on the work of Gregor Mendel.	
	True	False	
59.	Repea	ted exposure to a stimulus that evokes a reflex response results in	
60.		ispute over the relative importance of genetics and learning is often called the debate.	

61.	The chief limitation of natural selection as a means of adapting to change is that
62.	, like natural selection, is a biological mechanism for adapting to change.
63.	Learning is a/an in due to
64.	A stimulus is an environmental event that is capable of affecting
65.	The brown-headed cowbird puts its eggs in other birds' nests. This is an example of a/an
66.	Explain the role of mutations in evolution.
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?
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.

Chapter 1--Introduction: Learning to Change Key

1. D

2. B

3. C

4. A

5. A

6. A

7. D

8. C

9. C

10. C

11. A

12. B

13. D

14. A

15. A

16. B

17. C 18. B

19. B

20. B

21. B

22. D 23. A

24. A

25. D

26. C

27. C

28. A

29. D

30. A

- 32. A
- 33. A
- 34. B
- 35. C
- 36. A
- 37. C
- 38. D
- 39. B
- 40. D
- 41. A
- 42. A
-
- 43. A
- 44. FALSE
- 45. TRUE
- 46. FALSE
- 47. FALSE
- 48. FALSE
- 49. TRUE
- 50. TRUE
- 51. FALSE
- 52. TRUE
- 53. FALSE
- 54. FALSE
- 55. FALSE
- 56. TRUE
- 57. FALSE
- 58. FALSE
- 59. habituation
- 60. nature-nurture
- 61. it is slow or takes place over generations or helps the species but not the individual; associate
- 62. Learning
- 63. change; behavior; experience
- 64. behavior

- 65. modal action pattern or fixed action pattern or instinct
- 66. The answer should indicate that mutations provide new variations which, if adaptive, will be selected.
- 67. 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. 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.
- 69. 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. 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.