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## Chapter 1

- 1. Which of the following best describes the hallmarks of comparative cognition?
  - a) Examining the cognitive processes of animals and comparing them to those of other animals.
  - b) Examining cognitive processes using experimental procedures.
  - c) Examining cognitive processes using experimental procedures and interpreting the findings within an evolutionary framework.
  - d) Examining cognition from an evolutionary framework.
- 2. Which of the following is true about cognition?
  - a) It is also known as knowledge.
  - b) It is the act of processing information.
  - c) It is the mental processes and activities used in perceiving, remembering, thinking, and understanding.
  - d) All of the above.
- 3. What are the tenets of Darwin's theory of evolution by natural selection?
  - a) Offspring inherit parents' characteristics through genes, variations among individuals within a species occur spontaneously, certain variations will be selected and transmitted across generations.
  - b) Offspring inherit parents' characteristics, variations among individuals within a species occur spontaneously, survival of the fittest.
  - c) Offspring inherit parents' characteristics, individuals within a species adapt to their environment, survival of the fittest.
  - d) Offspring inherit parents' characteristics through genes, individuals within a species adapt to their environment, survival of the fittest.
- 4. Which of the following is not true about by-products?
  - a) By-products are products of natural selection.
  - b) By-products are products of evolution.
  - c) By-products may become adaptive in the future if environmental contingencies change.
  - d) By-products are side effects of adaptations.

- 5. What was a primary criticism of Darwin's continuity that is still valid today?
  - Humans and animals differ on many traits and abilities. a)
  - Trait differences between humans and animals are qualitative. b)
  - Anecdotes were used to support his hypothesis. c)
  - d) It does not abide by Morgan's canon.
- 6. Which of the following studies would a behaviorist criticize?
  - a) Galef's study of Japanese quails and their mate-choice copying.
  - Pfungst's investigation of Clever Hans and his arithmetic abilities. b)
  - Köhler's study of captive chimpanzees and their problem-solving c) abilities.
  - a and c. d)
- 7. Which of the following questions would a behavioral ecologist ask?
  - What is the function of this behavior? a)
  - How does the behavior change across the lifespan of the animal? b)
  - What are the internal mechanisms that cause animals to respond in c) specific ways?
  - B and C d)
- 8. A trait that has been selected for a particular function in the past that now also serves another function is called a(n):
  - a) Exaptation.
  - Adaptation. b)
  - Common adaptation. c)
  - Common exaptation. d)
- 9. Proximate causes of a behavior are examined, most commonly, in which field(s)?
  - Ethology. a)
  - Developmental Psychology. b)
  - Behavioral Neuroscience. c)
  - d) All of the above.

- 10. Which of the following is true?
  - The evolution of cognitive processes can be difficult to establish due a) to common exaptation.
  - The evolution of cognitive processes can be difficult to establish b) due to common adaptation.
  - The adaptive value of cognitive processes can be difficult to establish c) due to random effects.
  - The adaptive value of cognitive processes can be difficult to establish d) due to by-products.
- 11. Although often described as a revolution, the increase in research into cognition can be seen as gradual due to
  - continuing research from the 1900s-1950s on higher mental a) processes.
  - behaviorism's continued dominance in psychology in the latter half of b) the 20<sup>th</sup> century.
  - the strict adherence to Morgan's canon by a select group of c) researchers.
  - the difficulty of discovering evidence for higher processing in animals. d)
- 12. The following sentence serves as a definition for what term: "mental processes and activities used in perceiving, remembering, thinking, and understanding and the act of using these processes'?
  - a) Cognition.
  - Learning. b)
  - c) Adaptation.
  - d) Psychology.
- 13. The case of Clever Hans demonstrates the need for what experimental control technique?
  - Double blind procedure. a)
  - Paired samples. b)
  - c) Random sampling.
  - d) Control groups.

- 14. Which of the following is not one of the 'Four Questions of Ethology'?
  - a) What is the function of the behavior?
  - b) What are the mechanisms that elicit the behavior?
  - c) How does the behavior change across the lifespan?
  - d) What variations in the behavior occur?
- 15. A fixed action pattern is an example of
  - a) Learned behavior.
  - b) Instinctive behavior.
  - c) Sensory adaptation.
  - d) Imprinting.
- 16. Convergence on the same solution through independent evolutionary change is known as:
  - a) Intelligence.
  - b) Common adaptation.
  - c) Speciation.
  - d) Evolution by means of natural selection.
- 17. \_\_\_\_\_\_ is a description of a trait or behavior in terms of its adaptive value.
  - a) Proximate cause
  - b) Fitness
  - c) Ultimate cause
  - d) Natural selection
- 18. Which two fields of psychology are most commonly associated with the field of Comparative Cognition?
  - a) Developmental psychology and behavioral neuroscience.
  - b) Developmental psychology and ecological psychology.
  - c) Behavioral neuroscience and social psychology.
  - d) Ecological psychology and evolutionary psychology.
- 19. Which of the following is not a tenet of Darwin's theory of evolution?
  - a) Offspring inherit the characteristics of their parents.
  - b) Offspring benefit from their parents' learned abilities.
  - c) Certain variations will be selected and transmitted across generations.
  - d) Variations among individuals within a species occur spontaneously.

20. The idea that "animal behavior should not be interpreted in terms of higher cognitive processes when simpler explanations are possible" is known as		
á	a)	Morgan's Canon.
	-	the Clever Hans effect.
(	-	Gestalt Theory.
(	d)	tight experimental control.
21. Subpopulations of animals that were originally members of the same species may diverge so that they can no longer breed. This process is known as		
ć	a)	adaptation.
	-	imprinting.
	-	speciation.
(	d)	divergence.
22. Ultimate causes of behavior are related to the whereas proximate causes of behavior focus on		
	a)	adaptive value; development and mechanisms.
	b)	development and mechanisms; adaptive value.
	c)	innate features; instincts.
(	d)	adaptive value; neurobiological systems.
23. Research in psychological shifted, in the late twentieth century to focus on cognitive processes. Which fields had the biggest influence on this shift?		
ä	a)	Biology and ecology.
1	b)	Behavioral ecology and computer science.
(	c)	Linguistics and ethology.
	d)	Linguistics and computer science.
24. When several species develop a different strategy for dealing with the same problem, it is referred to as:		
i	a)	common adaptation.
	b)	evolutionary divergence.
	c)	evolution by design.
(	d)	adaptive value.

- 25. Which scientific perspective is NOT considered an influence on the development of comparative cognition?
  - a) Evolutionary theory
  - b) Molecular biology
  - c) Ethology
  - d) Experimental psychology
- 26. Which question does not belong to Tinbergen's original four questions?
  - a) How did the behavior change across evolution?
  - b) How does the behavior develop across the lifespan?
  - c) What is the function of this cognition?
  - d) Why do animals behave in a specific way in a certain situation?
- 27. Which of the following is (are) the main difference(s) between an experimental and observational study?
  - a) Experimental studies allow for collection of more data than observational studies.
  - b) Researchers manipulate an independent variable in experimental studies.
  - c) Experimental studies involve random assignment of subjects.
  - d) Observational studies are cheaper and less time consuming.
- 28. Which of the following statements is correctly categorized as proximate or ultimate?
  - a) Moths have ears that can detect bat vocalizations: Ultimate.
  - b) Humans have a brain region that is devoted specifically to recognizing and understanding language: Ultimate.
  - c) Male peacocks with brighter feathers are able to mate with more females than are dull-colored males: Proximate.
  - d) Male bluegills that resemble females are often able to fertilize eggs without attracting attention from larger dominant males: Ultimate.
- 29. By the mid 20<sup>th</sup> century, 'species' was usually defined as
  - a) organisms that share physical characteristics.
  - b) a group of animals that can breed with one another.
  - c) animals that share 100% of their genetic variance.
  - d) animals that have the ability to communicate with one another in some form.

- 30. In part due to the anecdotal approach to explaining animal behavior represented by writers such as George Romanes, the early part of the 20th century saw
  - a) increasing interest in using an experimental approach to explaining animal behavior.
  - an increase in interest in the intelligence of monkeys. b)
  - c) movement away from laboratory research.
  - increased financial support for field research. d)
- 31. The "Clever Hans Effect" refers to
  - the potential for animals to exceed expectations in intelligence. a)
  - the power of children to shape the behavior of adults. b)
  - c) the risk of unconsciously cueing participants to behave in accordance with the experimenter's expectations.
  - the ability of participants to fool researchers into believing they are d) more capable than they truly are.
- 32. Which of the following is the result of natural selection?
  - adaptations. a)
  - by-products. b)
  - mutations. c)
  - random effects. d)
- 33. Stereotype behaviors that occur in a rigid order and are triggered by a specific stimulus in the external environment are called
  - fixed action patterns. a)
  - b) reflexes.
  - random effects. c)
  - d) action potentials.
- 34. Which of the following are hallmarks of the discipline of comparative cognition?
  - An evolutionary framework a)
  - Experimental procedures b)
  - c) Examination of cognitive processes.
  - d) All of the above.

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- 35. Which of the following is not a tenet of evolutionary theory?
  - a) Variations among individuals within a species occur spontaneously.
  - b) Offspring inherit parents' characteristics.
  - c) Certain variations will be selected and transmitted across generations.
  - d) An organisms can pass on characteristics that are acquired throughout its lifetime to its offspring.