

Name: _____

Period: _____

Adaptations Unit Quiz A

Match each vocabulary word with its correct definition. Please write the letter of each vocab word in the space next to the definition.

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|---|-------------------------|
| 1. _____ The combinations of genes for a trait that <u>can't</u> be seen with your eyes. | A. Punnett Square |
| 2. _____ The expression or appearance of a trait that <u>can</u> be seen with your eyes. | B. Allele |
| 3. _____ The "code" of instructions for a trait. | C. Dominant trait |
| 4. _____ A form of a gene (dominant or recessive). | D. Incomplete Dominance |
| 5. _____ A gene having the SAME alleles. | E. Phenotype |
| 6. _____ A gene having DIFFERENT alleles. | F. Genes |
| 7. _____ A trait that recedes into the background for the 1 st generation, but can be observed in the 2 nd generation of offspring. | G. Codominance |
| 8. _____ A trait that is always expressed in the 1 st generation of offspring. | H. Homozygous |
| 9. _____ Dominant traits that are <u>blended</u> and appear as a 3 rd phenotype. | I. Recessive trait |
| 10. _____ Dominant traits that appear <u>together</u> and appear as a 3 rd phenotype. | J. Genotype |
| | K. Heterozygous |

Circle the best answer for each of the following multiple choice questions

11. The passing on of traits from parents to offspring is called:

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|-------------|---------------------------|
| A. Genes | C. Physical Adaptations |
| B. Heredity | D. Behavioral Adaptations |

12. Which characteristic is NOT true of animals?

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|------------------------------------|-----------------------------|
| A. They are multicellular | C. They make their own food |
| B. They usually reproduce sexually | D. They have tissues |

13. Warning coloration is

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|---|---|
| A. a kind of camouflage | C. always black and white |
| B. a way to warn predators to stay away | D. always a sign that an animal is poisonous to eat |

14. Some birds use Earth's magnetic field

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|---------------------|-----------------------------------|
| A. to attract mates | C. to set their biological clocks |
| B. to navigate | D. to defend their territory |

15. _____ is NOT an example of how animals might deal with food shortage

- | | |
|---------------|--------------------|
| A. Migration | C. Social Behavior |
| B. Estivation | D. Hibernation |

16. All _____ lack a skull and a backbone

- | | |
|----------------|----------------------------|
| A. vertebrates | C. multicellular organisms |
| B. eukaryotes | D. invertebrates |

17. Which statement about communication between animals is NOT true?

- A. Animals use it to find mates
- B. It helps animals to find food
- C. It helps animals avoid enemies
- D. It occurs only between members of the same species

18. A tool used to determine the probability of passing traits to offspring is called a:

- A. Gene Chart
- B. Trait Triangle
- C. Punnett Square
- D. Chromosome Chart

19. Innate behaviors are influenced by

- A. environment
- B. experiences
- C. genes
- D. observation

20. Which of the following is a learned behavior?

- A. a person's ability to speak
- B. a person's use of a specific language
- C. a puppy wanting to chew
- D. a baby's ability to walk

21. When birds fly south for the winter and return north for the summer, they are

- A. hibernating
- B. migrating
- C. estivating
- D. just exercising

22. Which of the following animals experience estivation?

- A. desert squirrels
- B. butterflies
- C. bears
- D. salmon

23. Which of the following activities is controlled by circadian rhythm?

- A. storing food for the winter
- B. flying south for the winter
- C. waking up at the same time every day
- D. sleeping through the winter

24. Which of the following cycles is controlled by a biological clock?

- A. mating in the spring
- B. migrating
- C. hibernating
- D. all of the above

Fill-in-the blank. Write the correct vocabulary word to complete each of the following sentences.

25. All animals are _____ and have eukaryotic cells.

26. A wolf urinating to mark its territory is an example of _____ communication.

27. _____ occurs when a signal travels from one animal to another, and the receiver of the signal responds in some way.

28. A whale's ability to swim when it is first born is an example of _____.

29. An animal's seasonal behaviors are controlled by its _____.

30. An organism that eats other organisms is a _____.

Complete the following short answer questions using complete sentences

31. Explain the difference between sexual and asexual reproduction. What are the pros and cons of sexual reproduction?

32. Explain how innate behavior and learned behavior are similar and different. Provide examples of each.

33. Suppose a father who is heterozygous for brown eyes (a dominant trait) has children with a mother who has blue eyes (a recessive trait). If they have 10 children, how many will most likely have brown eyes? How many will most likely have blue eyes? Use a Punnett square to show how you got your answer.

34. Mrs. Stout decided to cross-pollinate a plant with red flowers with a plant with white flowers. Both of these traits are dominant. Explain how the offspring will look different depending on if this is an example of incomplete dominance or codominance. Use a Punnett square to show how you got your answer.

35. What are the four types of animal communication? Provide a real life example for each.