

Evolution Test Review

Complete each of the following sentences by choosing the correct term from the word bank.

adaptation
speciation

evolution
fossil record

species
selective breeding

natural selection
vestigial structures

1. When a single population evolves into two populations that cannot interbreed anymore, **speciation** has occurred.
2. Darwin's theory of **natural selection** explained the process by which organisms become well-adapted to their environment.
3. A group of organisms that can mate with each other to produce offspring is known as a(n) **species**.
4. The **fossil record** provides information about organisms that have lived in the past.
5. In **selective breeding** humans select organisms with desirable traits that will be passed from one generation to another.
6. A(n) **adaptation** helps an organism survive better in its environment.
7. Body parts that are no longer used by organism but are leftovers from a previous species are called **vestigial structures**.

Multiple Choice

- _____ 8. The allele that causes sickle cell anemia is more common in Africa than in the United States because
- a. individuals with the sickle cell allele do not die from malaria in the U.S.
 - b. **individuals with the sickle cell allele do not die from malaria in Africa**
 - c. the sickle cell allele is the dominant allele in Africa but the recessive in the U.S.
 - d. individuals with the sickle cell allele are healthier and live longer
- _____ 9. The fact that all organisms have DNA as their genetic material is evidence that
- a. all organisms undergo natural selection.
 - b. **all organisms may have descended from a common ancestor.**
 - c. selective breeding takes place every day.
 - d. genetic resistance rarely occurs.
- _____ 10. Charles Darwin puzzled over differences in the _____ of the different species of Galápagos finches.
- a. webbed feet
 - b. **beaks**
 - c. bone structure of the wings
 - d. eye color
- _____ 11. Darwin observed variations among individuals within a population, but he did not realize that these variations were caused by
- a. interbreeding.
 - b. differences in food.
 - c. **differences in genes.**
 - d. selective breeding.

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C Cleary



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