



# Pre-Evolution Quiz (A)

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- On a piece of notebook paper number 1-10.
- Read each question carefully and choose the best response.
- If you need to see a question again, wait until the end of the quiz and ask to see the question.

1. The classification of organisms into hierarchical groups is called

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- a. The scale of nature
  - b. Taxonomy
  - c. Natural theology
  - d. Ontogeny
  - e. phylogeny

For Answer:



## 2. The best description of natural selection is

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- a. The survival of the fittest.
- b. The struggle for existence.
- c. The reproductive success of the members of a population best adapted to the environment.
- d. The overproduction of offspring in environments with limited natural resources.
- e. A change in the proportion of variations within a population.



3. Darwin's claim that all of life descended from a common ancestor is best supported with evidence from

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- a. The fossil record.
- b. Comparative anatomy.
- c. Taxonomy.
- d. Molecular biology.
- e. Comparative embryology.



## 4. Genetic drift is likely to be seen in a population

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- a. That has a high migration rate.
- b. That has a low mutation rate.
- c. In which there is associative mating.
- d. That is very small.
- e. For which environmental conditions are changing.



5. If a population that is in Hardy-Weinberg equilibrium for two alleles, C and c, 16 percent of the population show a recessive trait. Assuming C is dominant to c, what percent show the dominant trait?

- a. 36%
- b. 48%
- c. 60%
- d. 84%
- e. 96%



6. Which of the following is NOT a type of intrinsic reproductive isolation?

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- a. Mechanical isolation.
- b. Behavioral isolation.
- c. Geographical isolation.
- d. Gametic isolation.
- e. Temporal isolation.



## 7. Convergent evolution may result

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- a. When older structures are preadapted for new functions.
- b. When homologous structures are adapted for different functions.
- c. As a result of adaptive radiation.
- d. When species are widely separated geographically.
- e. When species have similar ecological niches.





8. The half-life of carbon-14 is 5600 years. A fossil that is 22,400 years old would have what amount of the normal proportion of C-14 to C-12?

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- a.  $1/2$
- b.  $1/4$
- c.  $1/6$
- d.  $1/8$
- e.  $1/16$



9. Modern theories of evolution propose that species may exist unchanged for a long period of time. Suddenly, an environmental change may cause a shift in the gene pool. This theory of evolution is known as

- a. Natural selection
- b. Sympatric selection
- c. Punctuated equilibrium
- d. Parapatric evolution
- e. Survival of the fittest



10. The species of wren found on the island of St. Kilda, which is off the coast of Scotland, closely resembles a wren species found on the Scottish mainland. These wren species support the theory of

- a. Divergent evolution.
- b. Sympatric speciation.
- c. Natural selection.
- d. Allopatric speciation.
- e. Convergent evolution.

For Answer:



To Question #1





# Correct Responses!!!

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1. B

6. C

2. C

7. E

3. D

8. E

4. D

9. C

5. A

10. D