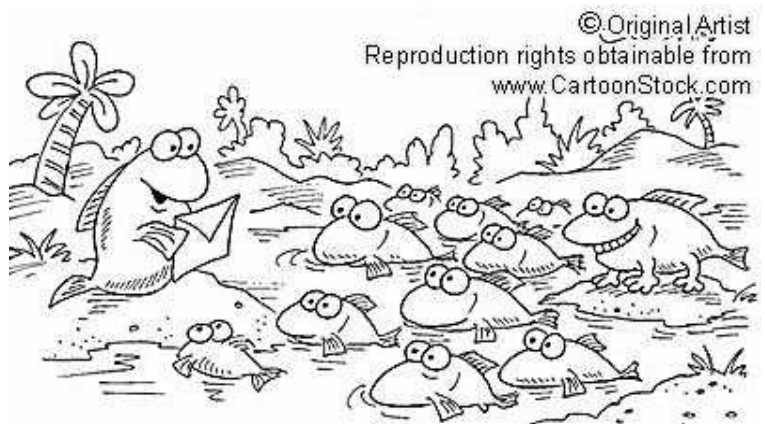


Circle the letter of the one best answer

1. In order for a species to become more than one species (adaptive radiation or speciation), there must be:
 - A. No genetic drift
 - B. Genetic, reproductive isolation
 - C. islands for the species to live on
 - D. Volcanoes
 - E. Lots of gene flow
2. Your textbook has an illustration of amphioxus, an animal with a simple notochord; what is a notochord?
 - A. Rod of cartilage running along the back
 - B. The evolutionary precursor of the vertebrae
 - C. An adaptation for survival: swim faster, get more food.
 - D. All of the above
3. Migrations of individuals from one population of a species to another are called:
 - A. Gene flow
 - B. Random genetic drift
 - C. Natural selection
 - D. Mutations
4. Statistical sampling errors, such as from one generation of a species to another, or the founder effect, are called:
 - A. Gene flow
 - B. Random genetic drift
 - C. Natural selection
 - D. Mutations
5. Natural selection does NOT include:
 - A. Variation
 - B. Environment
 - C. Differential reproduction
 - D. Changes that happen to individuals during their lifetimes, such as giraffes stretching their necks to reach food.
6. The first tetrapods (=“four legs”) were the common ancestors of:
 - A. all animals
 - B. all animals with backbones
 - C. all birds, mammals, reptiles, and amphibians.
 - D. only humans
 - E. only primates and birds.
7. The concept of punctuated equilibrium emphasizes that:
 - A. evolution is the result of constant gradual change due only to natural selection
 - B. evolutionary change occurs only in species with many large populations that are spread over many diverse environments
 - C. most evolutionary change occurs during occasional rapid bursts when new species break off
 - D. newly created species have no ancestors
 - E. random genetic drift does not happen
8. Which is true about earlier stages of evolution and geological history?
 - A. The earth is roughly 5 billion years old
 - B. The beginning of sexual reproduction greatly increased the variation found in species
 - C. In the Paleozoic, about 400 mya, the first tetrapods evolved from lobe-finned fish
 - D. Multicellular organisms appeared before sexual reproduction did.
 - E. All of these seem to be True
9. The pattern of the leg bones of birds, mammals, reptiles, and amphibians is:
 - A. A homology
 - B. An analogy
 - C. Different in each of these groups
 - D. A notochord
10. In the evolution of vertebrate animals, which came FIRST?
 - A. Backbones and ribs
 - B. Legs
 - C. Lungs
 - D. Living on land not in sea

NAME _____

BONUS Q: how was it possible for the first tetrapods to evolve lungs?



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