

TEST NAME: **Eog Review**  
TEST ID: **190258**  
GRADE: **08**  
SUBJECT: **Life and Physical Sciences**  
TEST CATEGORY: **My Classroom**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. Which statement below best explains why several fossils of sea organisms were discovered buried deep in an area of dry land?
  - A. The fossils changed locations.
  - B. The area had a shift in climate.
  - C. The land was once underwater.
  - D. A glacier once covered the area.
  
2. What will **most likely** happen when the water available for a population of white-tailed deer becomes polluted?
  - A. The deer population will be unchanged.
  - B. The deer population will decrease due to the lack of drinkable water.
  - C. The deer population will increase due to the lack of drinkable water.
  
3. Which term **best** describes two predators living in the same habitat who feed on the same prey?
  - A. coexistence
  - B. competition
  - C. mutualism
  
4. Which is a process that allows scientists to compare rock layers with others in a sequence to determine their age?
  - A. radiometric dating
  - B. absolute dating
  - C. relative dating
  
5. Which **best** explains the role of plants in the carbon cycle?
  - A. Plants take in oxygen and release carbon dioxide.
  - B. Plants take in carbon dioxide released by other organisms.
  - C. Plants take in carbon dioxide and pass it directly to animals.

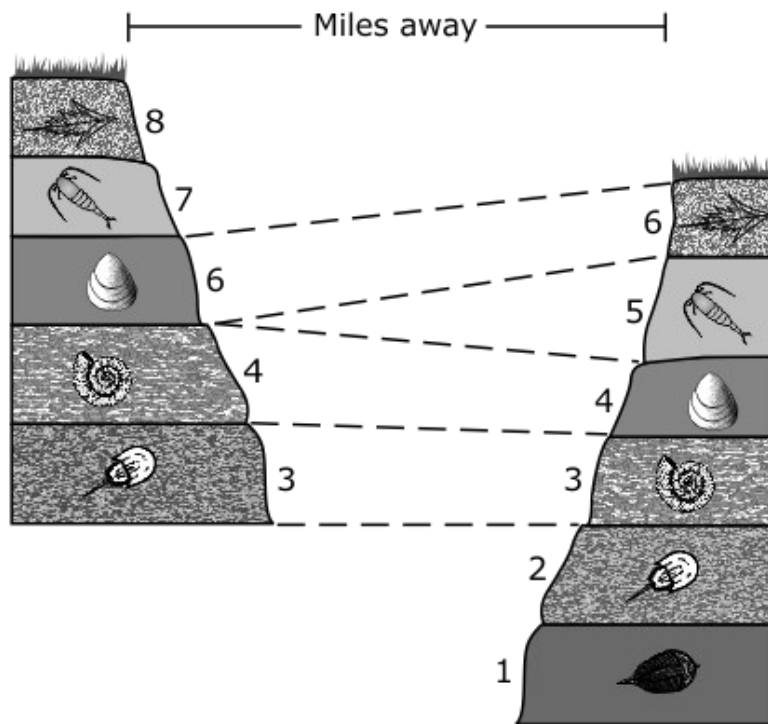
6. Which is an example of the forelimbs of humans and bats having the same basic skeletal structure but derived from the same evolutionary origin?
- A. cellular structures
  - B. analogous structures
  - C. homologous structures
7. Which part of a plant captures the light energy used in photosynthesis?
- A. guard cells
  - B. chlorophyll
  - C. roots
8. When animals break down glucose to create energy, they release water and carbon dioxide (CO<sub>2</sub>.) How can carbon dioxide (CO<sub>2</sub>) be reused within the food web?
- A. It can be used by animals as a source of oxygen.
  - B. It can be used by both plants and animals to produce energy.
  - C. It can be used by plants during photosynthesis to create glucose.
9. Which statement about parasitism is **most** true?
- A. Both organisms benefit.
  - B. Both organisms are negatively impacted.
  - C. One organism benefits and the other is negatively impacted.
10. When an ecosystem is affected by loss of shelter, what happens to the populations in that ecosystem?
- A. They can decrease or die out.
  - B. They are usually not affected.
  - C. They can readily adapt to the changes.

11. Which **best** describes mutualism?
- A. Ticks live and feed on dogs and other animals' blood to survive.
  - B. Mushrooms send out long, underground structures which allow them to grow in other areas.
  - C. Ants attack animals that try to feed on the acacia tree, and the ants feed on the nectar of the tree.
12. A wolf and a rabbit are an example of which ecological relationship?
- A. predator/prey
  - B. cooperation
  - C. mutualism
13. If a metamorphic rock contains an intrusion of igneous rock, which rock is the oldest?
- A. The igneous rock is older.
  - B. The rocks are the same age.
  - C. The metamorphic rock is older.
14. Which **most likely** describes the effect of removing shelter from an ecosystem while increasing a population?
- A. The population will decrease due to lack of space and food.
  - B. The population will increase due to lack of shelter and available food.
  - C. The population will increase, then decrease due to lack of biotic factors.
15. Evolution can **best** be described as which type of change?
- A. absolute change
  - B. extreme change
  - C. gradual change

16. Which **best** explains why the wing of a bat and the fin of a whale are similar?
- A. a mutation in nature that caused them to be similar
  - B. a common ancestor between the bat and the whale
  - C. a simple coincidence between the bat and the whale
17. Which is the **best** term to describe organisms living together in their ecosystem?
- A. parasitism
  - B. competition
  - C. coexistence
18. Dead matter and waste would pile up without which type of organism?
- A. decomposer
  - B. consumer
  - C. producer
19. Organisms who are evolutionarily closer are **most likely** found at which taxonomic level?
- A. order
  - B. family
  - C. kingdom
20. What type of relationship exists between wolves who hunt together for food?
- A. cooperation
  - B. mutualism
  - C. parasitism

21. Through relative dating, the age of a rock was determined to be between 15,000 and 25,000 years old. How long should the half life be of the radioactive element used to date the rock layer?
- A. Five thousand years
  - B. One million years
  - C. Five million years
22. Which term refers to the classification of organisms in an ordered system that indicates natural relationships?
- A. taxonomy
  - B. tectonics
  - C. geology
23. What term describes how a species meets its need for food and shelter and how it reproduces?
- A. niche
  - B. habitat
  - C. environment
24. Which **best** describes the effect of human society on a freshwater ecosystem?
- A. Movement of minerals and stones due to flowing water in a stream results in a constantly changing water bed.
  - B. Erosion caused by running water breaking down the river bank changes the geography of the river bed over time.
  - C. The discharge of hot water into a freshwater ecosystem results in decreased levels of oxygen available to organisms.
25. Radioactive dating is used to study which element in igneous and metamorphic rocks?
- A. carbon
  - B. krypton
  - C. uranium

26. What can be used to find the exact age of a rock specimen?
- A. ice cores
  - B. index fossils
  - C. radioactive dating
27. Which description relates to an abiotic ecosystem factor?
- A. Plants growing in the environment provide a source of shelter for other organisms.
  - B. New organisms in the environment rely on favorable weather conditions for survival.
  - C. Animals in the environment feed on algae and rich organic material found in the water bed.
28. The diagram below shows two sections of rock layers found several miles apart.



Based upon the information in the diagram, which conclusion can **best** be made?

- A. The rock layers contained fossils identical to each other.
- B. Rock layers are laid down from the youngest to the oldest.
- C. Rock layers containing similar fossils were formed at the same time.

29. A pride of lions stalks, tackles, and kills an antelope. Which is **best** being demonstrated?
- A. predation
  - B. mutualism
  - C. cooperation
30. How do diets high in fat affect the body?
- A. Fat provides needed nutrients to help respiration.
  - B. Fat supplies a majority of energy for life processes.
  - C. Fat clogs blood vessels and reduces the flow of oxygen.
31. Which data is **most likely** to be obtained by studying ice cores?
- A. minerals found in the geosphere
  - B. amount of water in the hydrosphere
  - C. oxygen concentration in the atmosphere
32. Rock layers were found containing 30 kg of radioactive elements that had a half life of 5 million years. How old were the rock layers if scientists determined that the samples had originally contained 120 kg of the radioactive materials?
- A. 5 million years old
  - B. 10 million years old
  - C. 15 million years old
33. Which molecule provided by plants accounts for the energy in a herbivore's diet?
- A. glucose
  - B. protein
  - C. salt



34. Which **best** describes the nutrients that are sources of energy for the body?
- A. fats and proteins
  - B. fats and carbohydrates
  - C. water and carbohydrates
35. Rock layers with seashells are found on top of a mountain much higher than sea level. Which **most likely** caused this?
- A. deposition
  - B. erosion
  - C. fault
36. Which characteristic of a population would **most** affect its survival when threatened by global climate change?
- A. biochemical adaptation
  - B. genetic specialization
  - C. genetic diversity
- 37.
- 38.
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