

**Natural Selection and Biomes
of EARTH SCIENCE PRE-TEST version B**

DIRECTIONS: SELECT the BEST letter from the term or phrase that BEST completes each statement.

1. To determine a biome, you will use all of the following Except:
 - A. Topography
 - B. Climate
 - C. Soil types
 - D. Animals

2. Collection of communities adapted to generally similar abiotic and biotic conditions?
 - A. Biomes
 - B. Ecosystem
 - C. Population
 - D. Food chain

3. There are TWO fundamental classifications of biomes. They are: 1. Terrestrial (land) biomes and 2. _____
 - A. Space Biomes
 - B. Amphibious Biomes
 - C. Aquatic Biomes
 - D. None of the Above

4. There are 4 major terrestrial (land) biomes:
 - i. Desert
 - ii. Forest
 - iii. Tundra
 - iv. _____
 - A. Prairie
 - B. Grasslands
 - C. Oceans
 - D. Swamps

5. Frequent grass fires, few trees due to inadequate rainfall, and Great Plains are all describing what biome?
 - A. Tundra
 - B. Deciduous
 - C. Taiga
 - D. Grassland

6. You are pushed out of a plane and you land in an unfamiliar biome. You notice that the plants are small, because of short growing season. It is also a cold and harsh winter. Lastly, you notice animals migrating south. What biome are you in?
 - A. Desert
 - B. Tundra
 - C. Grassland
 - D. Rainforest

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7. Seasonal leaf production:
- Water storage tissues
 - Thick epidermal layers (often waxy surface)
 - spines and thorns. These are the characteristics for which Biome?
- A. Rainforest
B. Grassland
C. Tundra
D. Desert
8. Which biome is characterized by a layer of permafrost?
- A. Taiga
B. Boreal
C. Tundra
D. Deciduous
9. Which of these biomes receives little annual precipitation?
- A. Taiga
B. Rainforest
C. Deciduous
D. Tundra
10. Which biome is made up primarily of grasses?
- A. Desert Grass
B. Grass lands
C. Rainforest
D. Grass Forest
11. According to Darwin all of the similarities and dissimilarities among groups of organisms that are the result of the branching process creating the?
- A. great tree of life
B. great river of live
C. great mammal selection
D. great selection of natural selection
12. The same natural laws and processes that operate in the present and have always operated in the past and will happen in the future and is applied everywhere in the universe is called?
- A. Uniformitarianism
B. Natural selection
C. Functional
D. Behavioral
13. Darwin was influenced by observations on which most famous islands
- A. Carney Islands
B. Hawaiian Islands
C. Galapagos Islands
D. Caribbean Islands

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14. Which statement is NOT TRUE about Darwin's Theory
- A. Species change over time and space
 - B. Necks of giraffes became long as a result of continually stretching to reach high foliage
 - C. All organisms share common ancestors with other organisms
 - D. Evolutionary change is gradual and slow
15. Darwin's process of natural selection has four components. SELECT the one that is NOT a component.
- A. Variation
 - B. Inheritance.
 - C. Adaptations
 - D. High rate of population growth
 - E. Differential survival and reproduction.
16. From one generation to the next, the struggle for resources will favor individuals with some variations over others and thereby change the frequency of traits within the population. This process is called?
- A. Evolution
 - B. Natural Selection
 - C. Competition
 - D. Structural-body structure

17. Mimicry of leaves by insects is a(n) _____ for evading predators.
This example is a katydid from Costa Rica.
- A. Natural selection
 - B. Variation
 - C. Adaptaion
 - D. Fitness



18. When talking about biodiversity it deals with the _____ and _____ of life on Earth.
- A. Variety and competition
 - B. Variety and complexity
 - C. Complexity and camouflage
 - D. Camouflage and variety
19. Which of the following do living things NOT strive for in competition:
- A. Mates
 - B. Living space
 - C. Food and water
 - D. Camouflage

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- 20. Evolution is the process whereby new species arise from earlier species by accumulated changes. Often referred to as:**
- A. "The living tree"**
 - B. "Descent with modification"**
 - C. "Descent with no changes"**
 - D. "Darwin's Natural Selection Theory"**
- 21. Using the example of how animals hunt in packs is an example of what?**
- A. Functional**
 - B. Structural**
 - C. Behavioral**
 - D. Environmental**
- 22. The tragedy with the peppered moths happened during:**
- A. The Industrial Revolution**
 - B. Civil War**
 - C. French and Indian War**
 - D. Vietnam War**
- 23. Dog breeding is an example of:**
- A. Natural Selection**
 - B. Evolution**
 - C. Artificial Insemination**
 - D. Artificial Selection**
- 24. Of the following, what is the driving force of evolution:**
- A. Adaptation**
 - B. Natural Selection**
 - C. Fitness**
 - D. Competition**
- 25. Birds with different foods to seek, seemed have developed different _____**
- A. Eating habits**
 - B. Wings**
 - C. Legs**
 - D. Beaks**