

1. Which of the following situations show a biotic factor operating within an ecosystem?
A.the kind of climate in a given region
B.carnivores that eat other animals
C.the concentration of hydrogen gas in the air
D.the rate of water flow in a body of water
2. According to Darwin, evolution occurs
- A.quickly
B.because of natural selection
C.regularly at every 5,000 years
D.when the organism desires change
3. Mitochondria are found in
- A.animal cells only
B.plant cells only
C.neither animal or plant cells
D.both animal and plant cells
4. Mitosis is a cellular process that produces
- A.two genetically identical cells
B.four genetically identical cells
C.two similar but not genetically identical cells
D.four similar but not genetically identical cells
5. The three primary types of muscle fiber present in the human body are
- A.smooth, cardiac, and digestive
B.cardiac, respiratory, and smooth
C.skeletal, smooth, and cardiac
D.skeletal, cardiac, and digestive
6. A certain plant needs moisture, carbon dioxide, oxygen light, and minerals to survive. This scenario shows that a living organism depends on which of the following?
A.abiotic factors
B.biotic factors
C.carnivore-herbivore relationships
D.symbiotic relationships
7. Blood and nutrients are carried from the mother to the developing fetus through the
- A.cervix
B.endometrium
C.umbilical cord
D.Fallopian tubes
8. Which four nitrogenous bases are found in DNA?
A.guanine, cytosine, adenine, thymine
B.guanine, uracil, adenine, cytosine
C.both a and b
D.none of the above
9. During the heat of the day in the desert, many lizards burrow underground to keep cooler. This is an example of a
- A.habituation
B.structural adaptation
C.behavioral adaptation
D.physiological adaptation
10. All the biotic and abiotic factors in a town's pond make up a(n).....
- A.biosphere
B.ecosystem
C.community
D.niche
11. A group of tissues is a(n)
- A.cell
B.organelle
C.organ
D.system

12. An ocean, a forest, and a grassy meadow are each examples of a complete .

- A.biosphere
- B.community
- C.ecosystem**
- D.population

13. The overall physical changes that occur in male and female bodies during puberty are called.....

- A) adolescent syndrome**
- B) premenstrual syndrome
- C) estrogen and testosterone
- D) secondary sex characteristics

14. One benefit of wetlands is that they support a wide variety of plants and animals, which means wetlands have great

- A.biodiversity**
- B.extinction
- C.genetics
- D.sunlight

15. Each step in a food chain or food web is represented by a(n)

- A.biomass pyramid.
- B.ecological pyramid.
- C.energy pyramid.
- D.trophic level.**

16. The process by which organisms that are more fit pass on their traits and the organisms that are less fit die is called what?

- A.adaptation.**
- B.evolution.
- C.natural selection.
- D.transition.

17. The combined portions of the Earth in which all living things exist is the

- A.biome.
- B.biosphere.**
- C.community.
- D.ecosystem.

18. Bacteria turn atmospheric nitrogen into a form of nitrogen usable by plants through the process of

- A.bacteria fixation
- B.nitrogen fixation**
- C.denitrogenation
- D.nitrogenation

19. Fish have a specific shape that enables them to move more quickly in water. This serves as an example of a

- A.mental adaptation
- B.behavioral adaptation**
- C.physiological adaptation
- D.structural adaptation

20. Which organisms can be found at the first, or lowest, trophic level?

- A.herbivores
- B.carnivores**
- C.heterotrophs
- D.autotrophs

21. A chemical that kills bacteria or slows their growth without harming body cells is a(n)

Answer: Vaccine

22. Two alternative forms of a gene are called

Answer: Alleles

23. Spherical-shaped bacteria are called

Answer: Cocci

24. Weather (such as rain) and soil conditions are considered to be part of the factors of an ecosystem.

Answer: Abiotic

25. Living factors in an environment are called

Answer: Biotic