



Biotic and Abiotic Factors

20 Questions

NAME : _____

CLASS : _____

DATE : _____

1. Abiotic means

- ☐ a) living ☐ b) nonliving

2. What is the difference between the biotic and abiotic factors?

- ☐ a) Biotic factors are living things and abiotic factors are nonliving things. ☐ b) Biotic factors are nonliving things and abiotic factors are living things.

3. Biotic means

- ☐ a) living ☐ b) nonliving

4. What is a example of a abiotic factor?

- ☐ a) Panda ☐ b) Bacteria
☐ c) Butterfly ☐ d) Weather

5. Temperature, light, air, water, and soil are all _____ parts of the environment

- ☐ a) alive ☐ b) biotic
☐ c) abiotic ☐ d) living

6. Temperature is an example of what kind of factor?

- ☐ a) biotic ☐ b) abiotic
☐ c) dead ☐ d) living

7.



What are the biotic factors in this image?

- ☐ a) sunlight, elephants, and grasses
- ☐ b) sunlight, water, and air
- ☐ c) elephants, plants, trees

8.



What are the abiotic factors in this image?

- ☐ a) water, sunlight, dirt, air
- ☐ b) birds, trees, and sunlight
- ☐ c) water, trees, and birds

9. Which of the following is a biotic factor?

- ☐ a) sun
- ☐ b) temperature
- ☐ c) soil
- ☐ d) grass

10. Which of the following is an abiotic factor?

- ☐ a) mushroom
- ☐ b) air
- ☐ c) elephant
- ☐ d) coyote

11. What is an example of a biotic factor?

- ☐ a) bear
- ☐ b) rocks
- ☐ c) soil
- ☐ d) water

12. An organisms in an environment is a

- ☐ a) abiotic factor
- ☐ b) biotic factor

13. Lizards and cacti are biotic factors in a desert ecosystem that would rely on which abiotic factors?

- ☐ a) insects and sun
- ☐ b) water and insects
- ☐ c) snakes and temperature
- ☐ d) water and soil

14. Nonliving elements in an ecosystem are called

_____.

- ☐ a) biotic factor
- ☐ b) abiotic factor
- ☐ c) limiting factor
- ☐ d) fear factor

15. Is a deer an abiotic or biotic factor?

- ☐ a) abiotic
- ☐ b) biotic

16. Which is an example of an abiotic factor in a pond environment?

- ☐ a) The water
- ☐ b) A frog
- ☐ c) A grasshopper
- ☐ d) A snake

17. Which is an example of a biotic factor in the environment?

- ☐ a) The climate in the region
- ☐ b) Carnivores that consume other animals
- ☐ c) Amount of helium gas in the air
- ☐ d) Flow of water in a river

18. Which of the following shows an abiotic factor interacting with a biotic factor in the environment?

- ☐ a) Lamprey eels survive by attaching themselves to trout.
- ☐ b) Water temperature affects its oxygen level.
- ☐ c) Low light intensity affects the growth of forest pine trees.
- ☐ d) Gypsy moth caterpillars eat the leaves of apple tree.

19. Which of the following is an abiotic factor that could affect biotic factors?

- ☐ a) Population of rabbits.
- ☐ b) Length of daylight.
- ☐ c) Presence of harmful bacteria.
- ☐ d) Number of herbivores.

20. Which is an example of a seasonal change to a biotic factor?

- ☐ a) Temperatures get cooler in the fall.
- ☐ b) Hours of sunlight increase the summer.
- ☐ c) Birds fly south for the winter.
- ☐ d) Rainfall increases in the spring.

Answer Key

1. b
2. a
3. a
4. d
5. c

6. b
7. c
8. a
9. d
10. b

11. a
12. b
13. d
14. b
15. b

16. a
17. b
18. c
19. b
20. c