## Bio-Q1W3-H.W

**Multiple Choice** *Identify the choice that best completes the statement or answers the question.* 

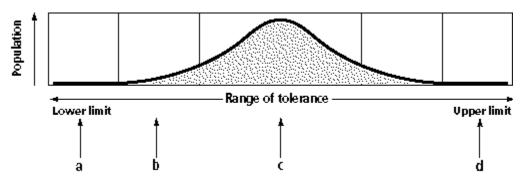
	1	Which of the following might has limiting factor in an	organism's survival?
	1.	<ol> <li>Which of the following might be a limiting factor in an a. Temperature</li> <li>c. Ab</li> </ol>	undance of predators
		-	of the above
	2	-	
	2.	This is an example of different organisms having different	
			otic factors.
		b. biotic factors. d. No	one of the above
	3.	3. Which of the following is NOT true of succession?	
		a. It is predictable. c. It i	s orderly.
		b. It is gradual. d. It i	s random.
	4.	4. Before many plants can inhabit a rocky area, soil must soil formation for succession to take place. Which of th area?	
		a. Insect c. We	eed
		b. Lichen d. Fei	rn
5. After a community is disrupted by large-scale events, such as forest fires, a new community is			uch as forest fires, a new community is established
		through the process of —	
			l formation.
			one of the above
	6.	5. Within aquatic biomes, there are many different environ	nments where different types of organisms thrive. In
		general, aquatic biomes are divided into photic and aph	
		a zone is photic or aphotic?	č
		· ·	ater depth
		b. Distance from equator d. All	of the above
	7.	7. Terrestrial biomes are classified based on the types of c	organisms that develop within them. The organisms
	that make up a biome share the same type of —		
			neer community.
			nax community.
	8.	3. Permafrost is characteristic of which biome?	
		a. Tundra c. De	sert
		b. Marine d. Ta	iga
	9.	9. Which terrestrial biome houses the greatest biodiversity	?
			opical rain forest
		b. Temperate forest d. Gra	
	10.	-	
	101		totrophic.
		•	terotrophic.
	11.		
	11.	a. aphotic zones c. est	
			condary succession
	12.		-
	14.	reproducing if the water becomes acidic or if the water	
			mmunities

b. zones of tolerance and intolerance d. intertidal zones

Ling feeds her guppies one-half teaspoon of fish food every day. The average guppy population in her aquarium over a four-month period is 38 guppies. She increased the food to one teaspoon per day. After a four-month period, the average population is 53 guppies.

c. is called a climax community

- \_\_\_\_\_13. Which of the following statements is supported by these data?
  - a. The size of the aquarium was a limiting factor.
  - b. One-half teaspoon of food was a limiting factor.
  - c. As long as Ling keeps adding more food, the guppy population will continue to grow.
  - d. Guppies reproduce rapidly.
- \_\_\_\_\_ 14. When Ling increased the amount of food, what happened to the carrying capacity of the aquarium?
  - a. It increased. c. It remained the same.
  - b. It decreased. d. It increased and then decreased.
- \_\_\_\_\_15. The stable ecosystem that develops due to succession \_\_\_\_\_.
  - a. is called a niche
  - b. is always a forest d. never changes





- \_\_\_\_\_ 16. In Figure 3-3, where will you be most likely to find the greatest diversity?
  - a. A c. C b. B d. D
  - 17. In Figure 3-3, which section would have a lack of organisms due to an overabundance of resources?
    - a. A c. C b. B d. D
- 18. In Figure 3-3, which section would account for a lower number of organisms near the bottom of a pond due to a short supply of oxygen and sunlight?
  - a. A c. C b. B d. D
  - 19. What type of succession is most likely to happen in Figure 3-4?

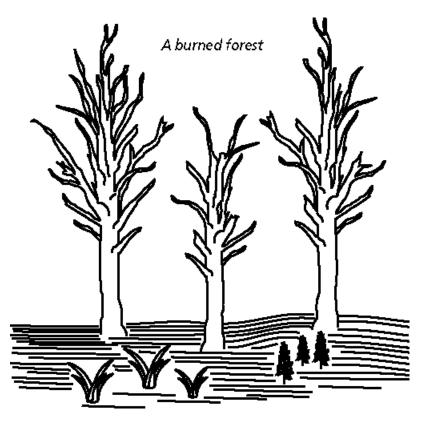
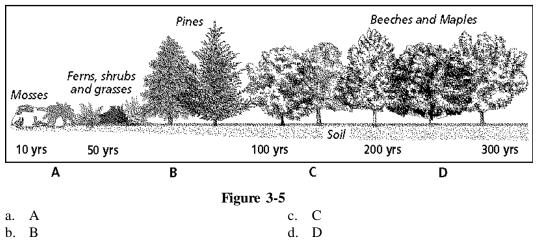


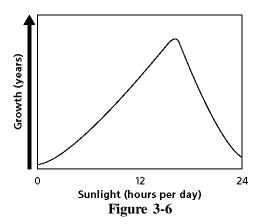
Figure 3-4

a.	primary	c.	teriary
b.	secondary	d.	climax

20. If you released a new species of deer into each of the stages shown in Figure 3-5, in which stage would the species be most successful?

## Succession in a Plant Community





- 21. Look at the graph in Figure 3-6. What does this graph tell us about this species of plant?
  - a. too much sunlight can hurt them
- c. heat is damaging to them
- b. they thrive in a lot of sun d. they need plenty of water
- 22. Look at the graph in Figure 3-6. Approximately how many hours of sunlight should these plants receive each day in order to make them grow at their optimum level?
  - a. 4 c. 16
  - b. 12 d. 20
- \_ 23. What would be the best time of the year to plant the organism described in Figure 3-6?
  - a. winter c. summer
  - b. spring

d. fall

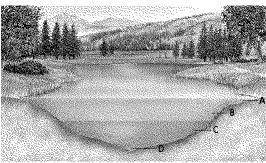


Figure 3-7

- \_\_\_\_\_ 24. You take a sample of species from the area labeled A in Figure 3-7. What would you expect to find? a. almost no life c. organisms that need very little oxygen
  - a. almost no lifeb. great species diversity

- d. one dominant species of fish
- \_ 25. What type of species would be most likely found in the area labeled D in Figure 3-7?
  - a. one that requires plenty of oxygen
  - b. plants that require light
  - c. amphibians that need a warm habitat
  - d. decomposers that feed on dead organisms

## **Modified True/False**

Indicate whether the statement is true or false.

- \_\_\_\_\_ 26. Herd animals are usually concentrated in the forest biome.
- \_\_\_\_\_ 27. The great northern coniferous forests are part of the <u>tundra biome</u>. \_\_\_\_\_\_
- \_\_\_\_\_ 28. Light intensity is a major limiting factor of the tundra biome. \_\_\_\_\_\_
- 29. Phytoplankton, which obtain energy by photosynthesis, are usually found concentrated in the <u>photic</u> zone of the ocean.
- \_\_\_\_\_ 30. A pioneer community is usually the stable result of succession. \_\_\_\_\_\_
- \_\_\_\_\_ 31. Optimal factors restrict the numbers of organisms that can exist. \_\_\_\_\_
- \_\_\_\_\_ 32. Age, physical condition, and stage in its life cycle may all influence an organism's limits of tolerance.
- \_\_\_\_\_ 33. The range of factors under which an organism functions and survives is known as <u>a limiting factor</u>.
- \_\_\_\_\_ 34. The <u>tundra</u> is a region dominated by deciduous trees. \_\_\_\_\_\_
- \_\_\_\_\_ 35. A large group of ecosystems characterized by the same type of climax community is called a <u>taiga</u>.
- \_\_\_\_\_ 36. The colonization of new sites by communities of organisms is <u>secondary</u> succession.
- \_\_\_\_\_ 37. A pioneer community is a stable, mature community that undergoes little or no succession.
- \_\_\_\_\_ 38. Conditions that restrict the existence, population size, reproductive success, or distribution of organisms are called <u>ranges of tolerance</u>.
- \_\_\_\_\_ 39. The portion of the shoreline that is affected by high and low tides is the <u>aphotic</u> zone.
- 40. The region of the ocean shallow enough for sunlight to penetrate is the <u>photic zone</u>.
- 41. <u>Succession</u> is the replacement of one community by another as environmental conditions change.
- 42. A body of water near the coast that is partly surrounded by land and contains both fresh and salt water is known as the <u>intertidal zone</u>.
- 43. <u>Humus</u> is a layer of soil that remains frozen throughout the year.
- \_\_\_\_\_ 44. Microscopic organisms that float in the sunlit regions of the ocean are <u>pioneer species</u>.
  - \_\_\_\_\_45. The tundra is an arid region characterized by little or no plant life. \_\_\_\_\_\_