

MY SO PRACTICE TEST

DIVISION B - MIDDLE SCHOOL, GRADES 6-9

PRACTICE TEST

Instructions

- You have 50 minutes to complete this test.
- You may write your answers directly in the test.
- You may use any notes or resources you have created or collected.
- You may use a calculator and scratch paper if necessary.
- Good Luck!

Test Questions

1. Which of the following choices shows the levels of organization of an ecosystem from most specific to most general?
 - a. Community, Population, Biome, Ecosystem
 - b. Ecosystem, Biome, Community, Population
 - c. Population, Community, Ecosystem, Biome
 - d. Population, Community, Biome, Ecosystem
2. In a food web, what do the arrows represent?
 - a. The amount of energy gained in each trophic level
 - b. The amount of energy that is lost in the ecosystem
 - c. The direction the energy is coming from
 - d. The direction the energy is going
3. If you wanted to know the amount of energy that moves through trophic levels, which model would you use?
 - a. Food Chain
 - b. Food Web
 - c. Trophic Web
 - d. Trophic Pyramid
4. What happens to the biomass as you move to the top, or point, of a trophic pyramid?
 - a. The biomass increases
 - b. The biomass decreases
 - c. The biomass stays the same
 - d. The biomass is not indicated on a trophic pyramid

5. Which level of a trophic pyramid has the greatest population?
- 1
 - 2
 - 3
 - 4
6. If 10,000 kcal enters the food pyramid, calculate the amount of energy available at level 3.
- 1 kcal
 - 10 kcal
 - 100 kcal
 - 1000 kcal
7. What type of estuary is formed when the rapid movement of the Earth's crust causes a large piece of land to sink, or subside, producing a depression or basin, filling with ocean water?
- Coastal Plain
 - Delta
 - Fjord
 - Tectonic
8. What type of estuary is formed at the mouths of large rivers, when sediments and silt accumulate rather than being washed away by currents or ocean waves. Over time, a complex set of channels, sand barriers and marshes form at the mouth of the river?
- Coastal Plain
 - Bar-Built
 - Delta
 - Fjord
9. What benefits do estuaries provide?
- Habitat protection
 - Provide buffer zones
 - Water Filtration
 - All the above
10. Which type of water would you expect to find in an estuary?
- Brackish Water
 - Freshwater
 - Hydropoxic Water
 - Saltwater
11. The main natural carbon sink is the:
- atmosphere
 - glaciers
 - soil
 - oceans
12. Atmospheric nitrogen returns to the lithosphere with the assistance of
- Bacteria
 - Combustion
 - Decaying organisms
 - Lightning

13. Where is phosphorus mainly found?
- Atmosphere
 - Oceans
 - Organisms
 - Rocks
14. Which energy source comes from burning plants?
- Biomass
 - Hydroelectric
 - Solar
 - Wind
15. The symbiotic relationship between an anemone and a clownfish is a classic example of _____ because the anemone provides the clownfish with protection and shelter, while the clownfish provides the anemone nutrients in the form of waste while also scaring off potential predator fish.
- Commensalism
 - Competition
 - Mutualism
 - Parasitism
16. Some species of barnacles attach themselves to the skin of whales which does not appear to bother the whales. The huge whales transport the tiny barnacles to plankton-rich waters, where both species feast upon the abundant microorganisms that live there. This is an example of
- Commensalism
 - Competition
 - Mutualism
 - Parasitism
17. An organism in this category helps maintain biodiversity, and there are no other species in the ecosystem that can serve their same function.
- Bioindicator species
 - Indicator Species
 - Invasive Species
 - Keystone Species
18. What percentage of humans live within approximately 25 miles of a coastline?
- 25
 - 40
 - 50
 - 60
19. Which type of water holds the most oxygen?
- Cold
 - Fresh
 - Salty
 - Warm

20. Hypoxia may result in
- Acid Rain
 - Algae Blooms
 - Dead Zones
 - Eutrophication
21. Which zone gets a lot of nutrients from runoff and non-point source pollution?
- Aphotic
 - Benthic
 - Limnetic
 - Littoral
22. Which zone lacks enough sunlight for photosynthesis?
- Aphotic
 - Benthic
 - Limnetic
 - Photic
23. Which agency oversees the quality of drinking water that comes out of your tap?
- DNR
 - EPA
 - FDA
 - USDA
24. When vessels catch more fish than can be replaced naturally, it is called..
- Bycatch
 - Extinction
 - Overfishing
 - Overpopulation
25. What is the most common gas in the atmosphere?
- Carbon
 - Hydrogen
 - Nitrogen
 - Oxygen

ANSWER KEY

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|-----|----------|-----|----------|
| 1. | C | 15. | C |
| 2. | D | 16. | A |
| 3. | D | 17. | D |
| 4. | B | 18. | B |
| 5. | A | 19. | A |
| 6. | C | 20. | C |
| 7. | D | 21. | C |
| 8. | C | 22. | A |
| 9. | D | 23. | B |
| 10. | B | 24. | C |
| 11. | D | 25. | C |
| 12. | D | | |
| 13. | D | | |
| 14. | A | | |