

*This practice test is designed to help you determine what concepts you DO know and more importantly what concepts you DO NOT know!*

**Go through the practice test THREE times:**

**(1) On your own (2) With your notes (3) With another student**



**Each time, if you cannot answer a question, draw a circle around it to identify that you should review this concept when preparing for the test.**

**True or False:** Identify the following statements as true or false. If FALSE, rewrite the UNDERLINED WORD with the correction (1 mark each)

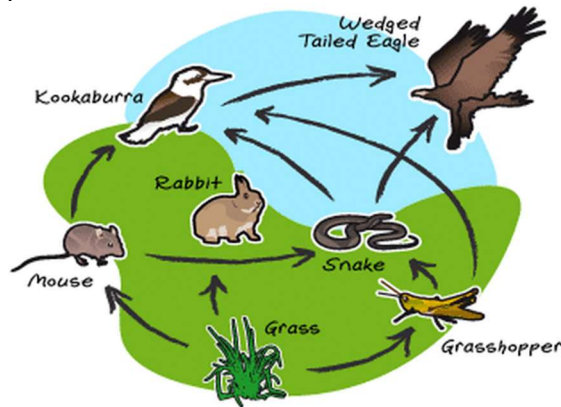
- 1. \_\_\_\_\_ Water is stored in the geosphere in the form of ground water.  
\_\_\_\_\_
  
- 2. \_\_\_\_\_ Non-point source pollution is difficult to track and regulate.  
\_\_\_\_\_
  
- 3. \_\_\_\_\_ Global warming is a result of excess water vapour in the atmosphere.  
\_\_\_\_\_
  
- 4. \_\_\_\_\_ In a food chain, the first organisms always starts with a consumer.  
\_\_\_\_\_
  
- 5. \_\_\_\_\_ Nutrients are distributed around Earth due to the winds.  
\_\_\_\_\_

**Multiple Choice:** Choose the BEST answer (1 mark each)

- \_\_\_\_\_ 6. Which of the following is an abiotic part of an ecosystem?
- a. Decomposer
  - b. Sun
  - c. Spider
  - d. Cacti

- \_\_\_\_\_ 7. Which of the following is responsible for the **energy flow** from the first trophic level to the fourth trophic level in a pyramid of energy?
- a. Decomposition
  - b. Predation
  - c. Photosynthesis
  - d. Limiting Factors
- \_\_\_\_\_ 8. The process that is almost the reverse of photosynthesis is \_\_\_\_\_?
- a. Transpiration
  - b. Carrying Capacity
  - c. Respiration
  - d. Precipitation
- \_\_\_\_\_ 9. Plants get most of their supply of carbon from ...
- a. Air
  - b. Soil
  - c. Water
  - d. None of the above
- \_\_\_\_\_ 10. Bacteria and fungi etc. break down organic matter in a process known as \_\_\_\_\_?
- a. Photosynthesis
  - b. Decomposition
  - c. Algal bloom
  - d. Cellular Respiration
- \_\_\_\_\_ 11. All food chains start with a ...
- a. Decomposer
  - b. Primary consumer
  - c. Producer
  - d. Apex consumer
- \_\_\_\_\_ 12. A consumer that only eats other consumers is called a ...
- a. Herbivore
  - b. Omnivore
  - c. Decomposer
  - d. Carnivore
- \_\_\_\_\_ 13. The correct term to describe the non-living components of an environment is ...
- a. Dead
  - b. Biotic
  - c. Abiotic
  - d. Zombie
- \_\_\_\_\_ 14. Which of the following spheres is **not** part of the phosphorus cycle?
- a. Hydrosphere
  - b. Biosphere
  - c. Lithosphere
  - d. Atmosphere
- \_\_\_\_\_ 15. Which wind pattern is responsible for the prevailing winds across North America?
- a. Trade Winds
  - b. Great Ocean Conveyor Belt
  - c. Polar Easterlies
  - d. Westerlies
- \_\_\_\_\_ 16. The starting process in the water cycle is always ...
- a. Evaporation
  - b. Precipitation
  - c. Condensation
  - d. Any of the options
- \_\_\_\_\_ 17. Which of the following is considered a long-term store of carbon?
- a. Fossil fuels
  - b. Plants
  - c. Animals
  - d. Decomposers

Use the following food web for questions #18 - 20:



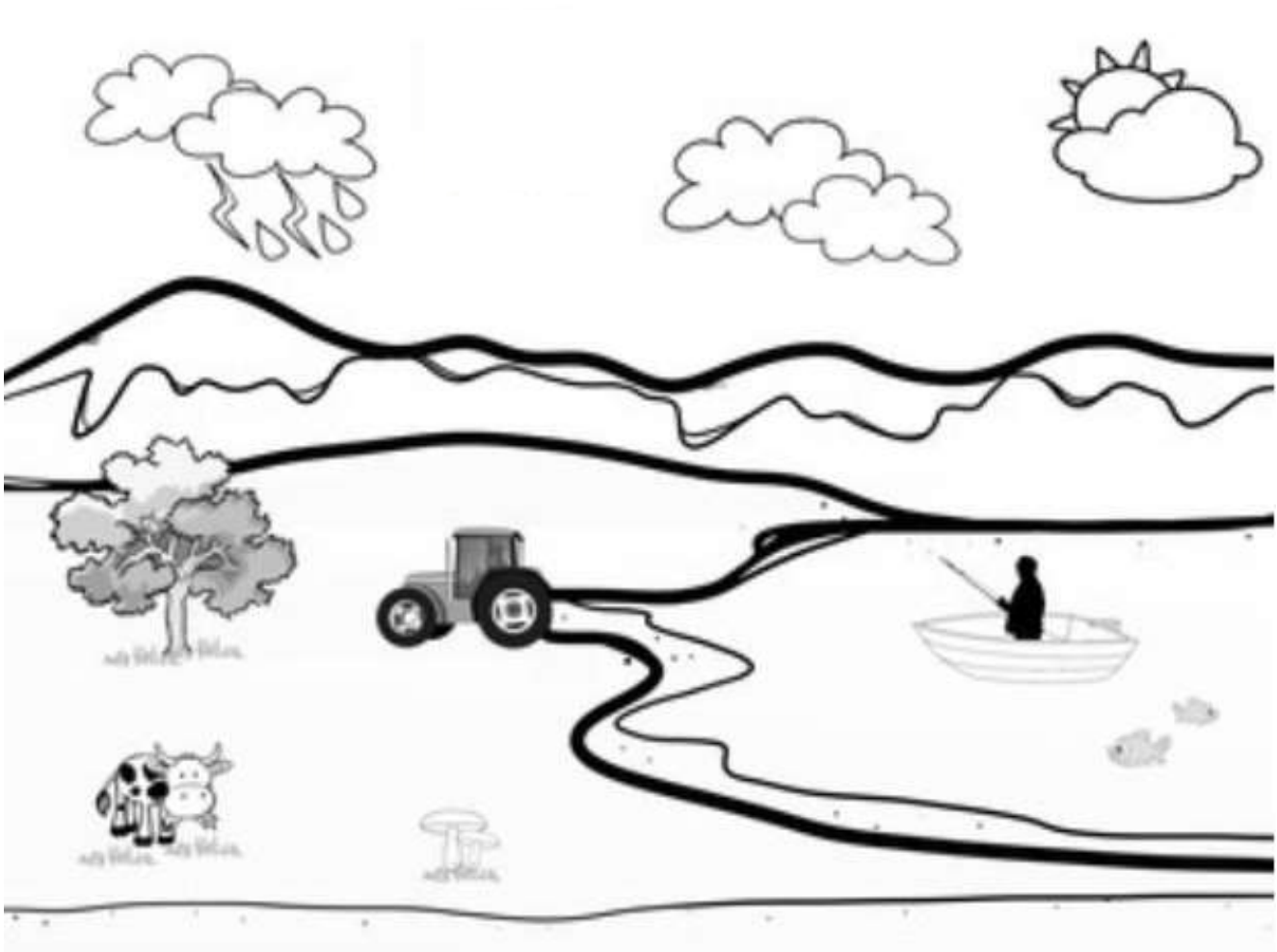
- \_\_\_\_\_ 18. Which of the following could be considered the primary consumer?
- Snake
  - Wedged tailed eagle
  - Kookaburra
  - Grasshopper
- \_\_\_\_\_ 19. Which organism is on the second trophic level?
- Mouse
  - Kookaburra
  - Wedged tailed eagle
  - Grass
- \_\_\_\_\_ 20. If grass is able to create 100% of its own energy, how much energy would the mouse gain after consuming the grass?
- 10%
  - 25%
  - 90%
  - 100%
- \_\_\_\_\_ 21. Which of the following is a biotic part of the ecosystem?
- Soil
  - pH
  - Water
  - Decomposer
- \_\_\_\_\_ 22. An algal bloom is caused by an excess of nitrogen or phosphorus in which of the following?
- Hydrosphere
  - Biosphere
  - Atmosphere
  - Lithosphere
- \_\_\_\_\_ 23. An ecosystem is able to support a maximum of 100 organisms. What is this idea describing?
- Limiting factors
  - Carrying capacity
  - Small population
  - Lack of resources
- \_\_\_\_\_ 24. Which of the following describes **decomposers**?

I.	Recycles dead organisms
II.	Causes biodegradation
III.	Makes nutrients available to producers

- I and II only
  - I and III only
  - II and III only
  - I, II, and III
- \_\_\_\_\_ 25. Which trophic level contains the **most overall energy**?
- First
  - Second
  - Third
  - Fourth



5. In the following diagram, show how the **carbon** cycle interacts in the following ecosystem. Be sure to **draw and label** arrows to show the flow of the carbon cycle. (3 marks)



6. What are the effects on the Earth due to excess burning of fossil fuels? (2 marks)