Environment and Natural Resources Contest – Water Quality Factors

Spring 2019

Use the limiting factors area on the scantron and bubble in the correct answer.

There are 10 questions.

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1)	The results of your nitrate test show that this water is a) 2 mg/L or more over the MCL for drinking water b) At the MCL for drinking water c) 2 mg/L or more below the MCL for drinking water
2)	The pH of your sample is a) Acidic b) Neutral c) Alkaline
3)	Denitrification is the term to describe: a) Gaseous Nitrogen to Nitrate b) Nitrate to Ammonia c) Ammonia to Nitrate d) Nitrate to Gaseous Nitrogen
4)	The pH of natural waters is controlled primarily by the system a) Carbonate b) Nitrate c) Phosphate d) Sulfate
5)	Agricultural BMPs to control nutrients include all EXCEPT: a) building wetlands b) installing riparian buffers c) fencing row crop areas d) timing fertilizer applications e) using conservation tillage
6)	A high phosphorus concentration in fresh waters may cause: a) adverse health effects in fish b) algal blooms c) hypoxia d) eutrophication e) all the above

- 7) What is the effect of increased temperature on the amount of oxygen in the water?
 - a) The oxygen levels will increase.
 - b) The oxygen levels will decrease.
 - c) The oxygen level is unaffected by temperature.
 - d) The oxygen level can either increase or decrease.
- 8) A limiting nutrient is described as one that:
 - a) causes cancer
 - b) is a required element that is the least abundant
 - c) leads to hypoxia
 - d) binds with iron
- 9) Phosphorus in water can come from all EXCEPT:
 - a) manure
 - b) phosphorus minerals
 - c) sewage treatment plants
 - d) deposition from air
- 10) Which of the following would be an example of **Non-point Source** pollution?
 - a. Photosynthesis due to sunlight
 - b. The presence of zooplankton in a body of water
 - c. Discharge from an overwhelmed sewage treatment plant
 - d. Topsoil erosion from farm fields into a river