



2023 STATE ENVIROTHON

Aquatics Test

INSTRUCTIONS: Write your answers on the Respondent Sheet.

MULTIPLE CHOICE: Select the best possible answer from those provided.

1. Too much nitrogen and phosphorus in water can directly cause _____.
 - A. Increased sediment load
 - B. Increased turbidity
 - C. Increased algae growth
 - D. Reduced dissolved oxygen levels
2. Which of the following aquatic species is an important link between primary producers and higher consumers?
 - A. Dragonflies
 - B. Algae
 - C. Largemouth Bass
 - D. Mayflies
3. According to the Benthic Macroinvertebrate Flow Chart, the Mayfly and the Caddisfly are listed as _____.
 - A. Having three tails.
 - B. Pollution intolerant
 - C. Having wings
 - D. Pollution tolerant
4. Which of the following is NOT an aquatic habitat found in Iowa?
 - A. Farm pond
 - B. River
 - C. Playa wetland
 - D. Intermittent stream
 - E. Vernal pool

5. What type of plant is coontail?
- A. Emergent
 - B. Floating leaf
 - C. Submersed
 - D. Herbivore

MATCHING: Complete the following statements with the best word from below.

- | | | |
|----------------|----------------------------|--------------------------|
| A. Zooplankton | D. Allochthonous materials | G. Biological monitoring |
| B. Wetland | E. Nutrient cycling | H. Organic matter |
| C. Watershed | F. Indicator bacteria | I. Phytoplankton |

6. _____ are used to detect and estimate the level of fecal contamination of water. E coli is an example.
7. A hydrologic unit code is a sequence of numbers that identify a specific _____.
8. The use of living organisms to determine presence, amounts, changes in pollution, and effects of both abiotic and biotic factors in the environment is called _____.
9. The primary factor that distinguishes _____ from other land forms or water bodies is the characteristic vegetation of aquatic plants, adapted to the unique hydric soil.
10. Leaves, branches, and logs falling into the stream are examples of _____.
11. Diatoms and blue-green algae are examples of _____.

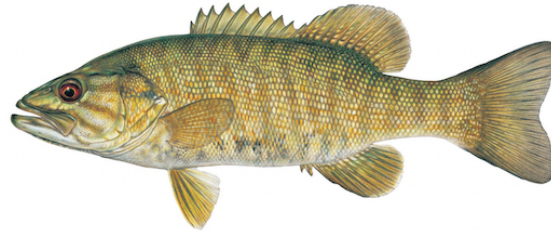
MATCHING: Match the picture to the name.

- A. Yellow Perch
- B. Black Crappie
- C. Common Carp
- D. Channel Catfish
- E. Smallmouth Bass

12. _____



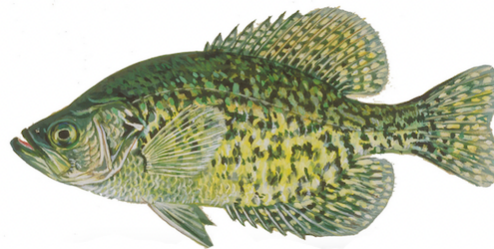
13. _____



14. _____



15. _____



**REMAINING QUESTIONS:
ANSWER AT THE LAB STATION**

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TEST REVISION DATE	04/17/2023
CONTENT EXPERT	CDI Personnel