

2022 OHIO AREA V ENVIROTHON QUESTIONS – AQUATICS

1. What year was the Clean Water Act put into place?
 - A. 1945
 - B. 1963
 - C. 1972
 - D. 1985
2. What was the intended purpose for establishing the Clean Water Act?
 - A. To address the problem of pollution in United States major waterway systems.
 - B. To create a basic structure for regulating discharges of pollutants into the waters of the United States and to regulate quality standards of surface waters.
 - C. To protect wildlife and waterfowl that rely on our major river systems for survival.
 - D. To protect wetlands and all the biodiversity that resides within.
3. Which item below is an effect of storm water pollution?
 - A. Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow.
 - B. Excess nutrients can cause algae blooms that in turn decrease the level of oxygen in the water.
 - C. Bacteria and other pathogens can wash into swimming areas and create health hazards.
 - D. All of the above.
4. Which part of the water cycle includes snow melt runoff, ice, snow, and fog drip?
 - A. Evaporation
 - B. Precipitation
 - C. Condensation
 - D. Transpiration
5. A stream that does not flow during part of the year is referred to as?
 - A. Intermittent stream
 - B. Head water stream
 - C. Second order stream
 - D. Small river
6. Which is an example of a closed system used to conserve water limit pollutants leaving a site through runoff?
 - A. Treating and reusing fracking flowback on well sites
 - B. Using Wetlands to filter nutrient runoff from large agricultural areas
 - C. Household septic systems filtering wastewater from homes
 - D. Typical Municipal Wastewater treatment systems
7. Which aquatic insect listed below is a predator of other insects throughout most of its life cycle?
 - A. May fly
 - B. Giant water bug
 - C. Caddisfly
 - D. Stone fly

8. If you were planting a riparian buffer along a stream or river, which tree species would not be a suitable pick?
- A. Silver maple
 - B. Sycamore
 - C. Swamp white oak
 - D. Virginia Pine
9. The presence of which species listed below would be an indicator of good water quality?
- A. Eastern box turtle
 - B. Black rat snake
 - C. Spring salamander
 - D. Creek chub
10. Name one positive effect that the invasive zebra mussel has had on Ohio's aquatic ecosystems.
- A. Out-competes our local mussel populations
 - B. Add Water filtration
 - C. Excellent source of food for walleye
 - D. Filter out algae that native species need for food
11. Which species is NOT an endangered salamander found in Ohio?
- A. Cave salamander
 - B. Eastern Hellbender salamander
 - C. Spotted salamander
 - D. Green salamander
12. Which of the following amphibians is totally aquatic throughout its entire lifespan?
- A. Eastern hellbender
 - B. Bullfrog
 - C. Red- Spotted Newt
 - D. Blanchard's cricket frog
13. During hot summer months, many Ohio lakes and ponds will have a large layer of water depleted of oxygen. Which of the following terms means "depleted of oxygen"?
- A. Hyper aerobic
 - B. Toxic
 - C. Anoxic
 - D. Aerobic
14. What is the most common frog species in Ohio?
- A. Northern Green Frog
 - B. American Toad
 - C. Spring Peeper
 - D. Wood frog

15. Which of the following macroinvertebrates is a group one indicator species?
- A. Pouch snail
 - B. May fly
 - C. Black fly
 - D. Dragon fly
16. Which of the following macroinvertebrates is a group 2 indicator species?
- A. Caddisfly
 - B. May fly
 - C. Crane fly
 - D. Black fly
17. Which of the following macroinvertebrates is a group 3 indicator species?
- A. May fly
 - B. Crane fly
 - C. Crayfish
 - D. Black fly
18. Identify the most common reason for the endangered status of wetland species?
- A. Disease
 - B. Hunting and trapping
 - C. Habitat destruction
 - D. Sedimentation
19. Which of the following is considered an invasive aquatic species in Ohio?
- A. Round goby
 - B. Bighead carp
 - C. Zebra mussel
 - D. All of the above
20. Identify this frog species.
- A. Bullfrog
 - B. Pickerel frog
 - C. Wood frog
 - D. Green frog
21. What frog species is the only frog species known to live north of the Arctic Circle?
- A. Bullfrog
 - B. Green frog
 - C. Wood frog
 - D. Mountain chorus frog

22. Identify this salamander species.

- A. Red-spotted newt
- B. Northern two-lined salamander
- C. Red backed salamander
- D. Spring salamander

23. Identify this macroinvertebrate.

- A. Crayfish
- B. May fly
- C. Crane fly
- D. Dragon fly

24. Identify this macroinvertebrate

- A. Crayfish
- B. Black Fly
- C. Stone Fly
- D. Water scorpion

25. Identify this salamander species

- A. Jefferson salamander
- B. Red-spotted newt
- C. Spring salamander
- D. Northern dusky salamander