



## 2022 Envirothon Current Issues Test: **ANSWER KEY**

Team Name: \_\_\_\_\_

**MATCHING (10 questions):** Match the term to the description that fits best (1 point each)

- |                         |                                   |                    |
|-------------------------|-----------------------------------|--------------------|
| k. Recycling            | f. Pyrolysis                      | a. Marine litter   |
| l. Biochar              | g. Composting                     | b. Remanufacturing |
| m. Carbon Sequestration | h. Municipal solid waste landfill | c. Brownfields     |
| n. Waste                | i. Roadside trash                 | d. Greenfields     |
| o. Cold composting      | j. Leachate                       | e. Vermicomposting |

1. **D** The most tangible form of pollution
2. **O** Worm Composting
3. **B** A charcoal-like product that sequesters carbon in soil for thousands of years
4. **G** The natural process of recycling organic matter
5. **M** Abandoned or underused industrial properties that pose, or potentially pose, a risk to humans and the environment
6. **J** Formed when rainwater filters through wastes placed in landfill
7. **H** A discrete area of land or excavation that receives household waste
8. **C** Secures carbon dioxide to prevent it from entering the Earth's atmosphere
9. **K** Solid waste that has been discarded, disposed of, or littered into the environment, including our freshwater and marine ecosystems
10. **F** Form of gasification that occurs in an oxygen-free environment at lower temperatures than conventional gasification
  
11. Carbon dioxide can be used as a raw material to produce \_\_\_\_\_, which is a technological material?
  - a. Glass
  - b. Cellulose
  - c. Graphene**
  - d. Pyrolysis

12. Carbon sequestered in soil by plants through \_\_\_\_\_, and can be stored as soil organic carbon (SOC).
- a. Photosynthesis
  - b. Composting
  - c. Biochar
  - d. Waste
13. Composting is a good way to reduce the amount of food waste going into landfills. Which of the following should you NOT put into your backyard compost site?
- a. Leftovers
  - b. Yard clippings
  - c. Garden waste
  - d. Noxious weeds
14. Food waste is the number one material in American landfills, accounting for \_\_\_ percent of all municipal solid waste (MSW) according to the EPA.
- a. 18%
  - b. 39%
  - c. 24%
  - d. 8%
15. Which European country actually imports garbage to use for energy production?
- a. France
  - b. Sweden
  - c. Denmark
  - d. Germany
16. The manure from a dairy milking 200 cows produces as much nitrogen as is in the sewage from a community of \_\_\_\_\_ people?
- a. 1,000-2,000
  - b. 50,000-60,000
  - c. 5,000-10,000
  - d. 2,500-3,000

17. The EPA implemented a brownfield revitalization program in what year?

- a. 1995
- b. 2008
- c. 1971
- d. 2001

18. There are two main types of carbon sequestration. Which of these are they?

- a. Biological and Technological
- b. Geological and Biological
- c. Technological and Geological

19. Recycling has many positive benefits including which of the following:

- a. Energy savings
- b. Job creation
- c. Pollution prevention
- d. Reduces landfill use
- e. All of the above

20. Improper storage of hazardous materials might cause all of the following except:

- a. Spills
- b. Excess grass growth
- c. Fires
- d. Contamination
- e. None of the above

21. \_\_\_\_\_ systems are used as a means of on-site wastewater treatment in many homes, both in rural and urban areas, in the United States.

- a. Composting
- b. Brownfield
- c. Septic tank
- d. Anaerobic digestion

22. \_\_\_\_\_ systems are used as a means of on-site wastewater treatment in many homes, both in rural and urban areas, in the United States.

- a. 1
- b. 1.2
- c. 1.4
- d. 1.6

23. \_\_\_\_\_ pollution is recognized as the primary category of water pollution that is not yet controlled.

- a. Nutrient loss
- b. Municipal wastewater
- c. Point source
- d. Nonpoint source

24. Biological carbon sequestration is the storage of carbon dioxide in all of the following except:

- a. Vegetation
- b. Oceans
- c. Landfills
- d. Forests
- e. Soils
- f. All of the above

25. Which of the following is an example of a “repurposed” product?

- a. E-waste
- b. Yarn made from plastic bags
- c. Solid waste
- d. Biochar