2023 Envirothon Soils Test

	Prep	pared by Greg Meyer, Ohio State University Extension Educator, Warren County	
1.	Which	of the following principal forms of soil is considered structureless?	
	a.	Columnar	
	b.	Granular	
	c.	Massive	
	d.	Prismatic	
2	Which soil element can give soil a brown, yellow or red color?		

- Which soil element can give soil a brown, yellow or red color?
 - a. Copper
 - b. Iron
 - c. Manganese
 - d. Zinc
- 3. Overly saturated soils can be mottled or completely gray in color.
 - a. True
 - b. False
- 4. Which soil horizon is also known as the substratum?
 - a. "A" horizon
 - b. "B" horizon
 - c. "C" horizon
 - d. "R" horizon
- 5. Which answer has the soil particles listed from the largest particle to the smallest particle?
 - a. Clay, silt, sand
 - b. Sand, silt, clay
 - c. Sand, clay, silt
 - d. Silt, sand, clay
- 6. Based upon the soil textural triangle, which of these soil textures contains the highest percentage of clay particles?
 - a. Clay loam
 - b. Loam
 - c. Silty clay
 - d. Silty clay loam
- 7. A soil that tests with a pH of 6.5 is described as.
 - a. Neutral
 - b. Slightly acidic
 - c. Slightly alkaline
 - d. Basic

	c.	Plastic bucket		
	d.	Ziploc bag		
9.	Soil pro	Soil properties are developed through five principal soil forming factors. Which of the following		
	is not a	soil forming factor?		
	a.			
	b.	Relief		
	c.	Time		
	d.	All of these are soil forming factors		
10. Material (cond city or clay) that is deposited an land by flavoing street in all of		al (sand silt or clay) that is denosited on land by flowing streams is called		
10.		al (sand, silt, or clay) that is deposited on land by flowing streams is called. Alluvium		
		Colluvium		
		Residuum		
		None of the above		
	u.	Notice of the above		
11. Which soil horizon is located closest to the soil surface?		soil horizon is located closest to the soil surface?		
	a.	"A" horizon		
	b.	"B" horizon		
	c.	"C" horizon		
	d.	"O" horizon		
12. Which metal caused soil contamination near roadways because of auto		metal caused soil contamination near roadways because of automobile emissions?		
	a.	Cadmium		
	b.	Copper		
	c.	Lead		
	d.	Nickel		
12	Sadima	entary rock formed by the hardening of a clay deposit is called.		
13.	a.			
		Bedrock		
	о. С.			
	_	Shale		
	u.	Shale		
14.	Soils w	ith parent material made up primarily of limestone are more likely to have a soil pH that		
	is.			
	a.	Acidic		
	b.	Alkaline		
	c.	Limestone doesn't affect soil pH		
	d.	Basic		

8. Soil samples should not be collected in a.a. Aluminum bucketb. Cardboard box

- 15. Erosion is the wearing away of the land surface by water, wind, ice, or other geologic agents. Erosion that occurs mainly because of human or animal activities is known as.
 - a. Accelerated erosion
 - b. Geologic erosion
 - c. Natural erosion
 - d. None of the above
- 16. An ion carrying a positive charge of electricity is known as a.
 - a. Catena
 - b. Cation
 - c. Dogion
 - d. Hydro ion
- 17. Which of the following nutrients is not obtained primarily from air and water?
 - a. Boron
 - b. Carbon
 - c. Hydrogen
 - d. Oxygen
- 18. What is the texture class of the A Horizon?
 - a. Clay
 - b. Silty Clay Loam
 - c. **Sandy Loam**
 - d. Sand
- 19. What is the drainage class of this soil?
 - a. Very Poorly Drained
 - b. Somewhat Poorly Drained
 - c. Moderately Well Drained
 - d. Well Drained
- 20. What is the depth of a restrictive layer?
 - a. 0-8 inches
 - b. 9-17 inches
 - c. **18-40 inches**
 - d. 41-60 inches