

2012 Soils Test

Site Specific Questions 1-5

1. Topsoil is a critical element in reducing nonpoint source pollution, and is also important in the effectiveness of LIDs.

What is the depth of topsoil in the soil pit?

- A. 0 to 2 inches
- B. 2 to 4 inches
- C. 4 to 10 inches
- D. 10 to 15 inches

2. Soil texture affects the ability of a soil to hold and release nutrients. What is the texture of the topsoil?

- A. Clay
- B. Sandy Clay
- C. Loam
- D. Silt Loam

3. What is the texture of the Subsoil at a depth of 18 inches?

- A. Clay
- B. Clay Loam
- C. Silty Clay Loam
- D. Silty Clay

4. Structure of the soil directly affects the ability of soil to move and filter water. What is the structure of the substratum in the soil pit?

- A. Massive
- B. Single grained
- C. Blocky
- D. Granular

5. The solum is the upper part of the soil profile, (above the C horizon), in which the processes of soil formation are active. What is the depth of the solum in the pit?

- A. 0 to 10 inches
- B. 10 to 20 inches
- C. 20 to 30 inches
- D. Greater than 30 inches or below bottom of the pit

6. Soil Surveys are made to?

- A. Provide inventory of soils for purpose of taxation.
- B. Provide information about soils and miscellaneous areas of an area.
- C. Understand the geology of an area.
- D. Understand the complexity of our land.

7. Soil Survey information is provided in a variety of formats. Which of the following formats would contain the most current and up to date information?

- A. USDA Websites, "Soil Data Mart", and "Web Soil Survey"
- B. Soil CD's and DVD's
- C. Soil Survey booklet
- D. All of the above

8. What agency helped provide the Preble County Soil Survey Information?

- A. USDA Natural Resources Conservation Service
- B. Ohio Agriculture Research and Development Center
- C. Ohio Department of Natural Resources
- D. All of the above

9. Geographic Information Systems (GIS) have been a major advancement to the soil survey program, but also can cause misunderstanding of the detail in mapping and accuracy of the soil lineplacement. Soil survey maps were intended to be viewed at the scale that they were mapped at. What scale was the soil survey of Preble County mapped on?

- A. 1 : 4,930
- B. 1 : 15,840
- C. 1 : 12,000
- D. 1 : 253,440

10. This Envirothon soil pit site is located on the edge of a soil map unit that has “MfB2” for the map symbol. What soil does the symbol, MfB2, represent?

- A. Miamian silt loam, 6 to 12 percent slopes, eroded
- B. Miamian-Celina silt loams, 6 to 12 percent slopes, eroded
- C. Miamian silt loam, 2 to 6 percent slopes, eroded
- D. Miamian-Celina silt loams, 2 to 6 percent slopes, eroded

11. According to the “Acreage and Proportionate Extent of the Soils Table”, how many acres of Preble County does the symbol “MfB2” represent?

- A. 23.7
- B. 18,395
- C. 30.9
- D. 8,311

12. Soil quality plays an important role in minimizing/eliminating non point source pollution. What is soil quality?

- A. How soil particles are arranged.
- B. The composition of sand, silt, and clay
- C. Capacity of a specific kind of soil function.
- D. The “soil series” of an area.

13. There are 5 essential functions that soil performs in the environment. Which of the following essential functions would have the smallest impact on non point source pollution?

- A. Supporting structures
- B. Filtering potential pollutants
- C. Regulating water
- D. Cycling nutrients

14. What is a soil ped?

- A. An individual natural soil aggregate
- B. A group of rock fragments in the soil
- C. There is no such thing as a soil ped
- D. A group of natural soil aggregates