



Event Area Career/Leadership Development Event

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SOILS PRACTICUM

1. World-wide, soils have been classified into soil orders or types (Soil Taxonomy). How many soil types are recognized in the system of taxonomic soil classification (SSSA Soil Types)?
 - A. 3
 - B. 12
 - C. 14
 - D. 6

Correct Answer: B

2. What soil type comprises the greatest area of the earth's glacier-free land surface?
 - A. Aridisols
 - B. Oxisols
 - C. Inceptisols
 - D. Entisols

Correct Answer: C

3. One soil type has a high amount of clay and shrinks and swells at dramatic rates causing huge cracks in the soil when dry. They are not good for roads and buildings but are highly fertile. What soil type is this?
 - A. Vertisols
 - B. Ultisols
 - C. Entisols
 - D. Gelisols

Correct Answer: A

4. Soil formation factors consist of 5 identified items. What are the factors listed by the USDA NRCS?
 - A. Wind, water, heat, freeze, and time
 - B. Parent material, climate, topography, biological activity, and time
 - C. Glaciers, flooding, climate, biological activity, and parent material
 - D. Flooding, wind erosion, sediment deposition, climate, and plant biology

Correct Answer: B

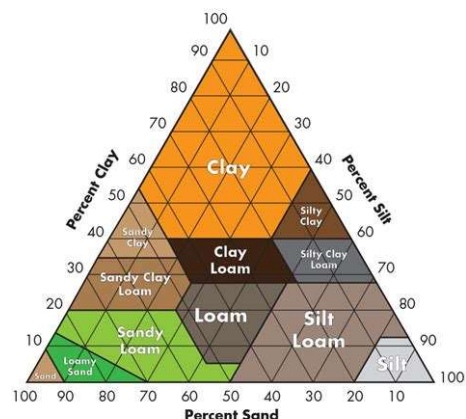
5. The letter R is used in some soil profile descriptions. What does the R stand for?
 - A. Residuum
 - B. Restriction layer
 - C. Rock layer
 - D. Volcanic ash layer

Correct Answer: C

6. Using a soil texture triangle, what type of soil has 20% clay, 60% silt, and 20% sand.

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

Correct Answer: D



7. Soil "A" has 45% clay, 45% silt, and 10% sand. Soil "B" has 10% clay, 30% silt, and 60% sand. Comparing the 2 soils, Soil "A" will:

A. suffer from dry weather first
B. not be good for crops
C. have a grainy texture
D. hold moisture longer

Correct Answer: D

8. As an agronomist a farmer has ask you to evaluate a field to know what texture it is. You get a sample of soil and press it between thumb and forefinger and it is grainy and does not make a ribbon. What would be your evaluation?

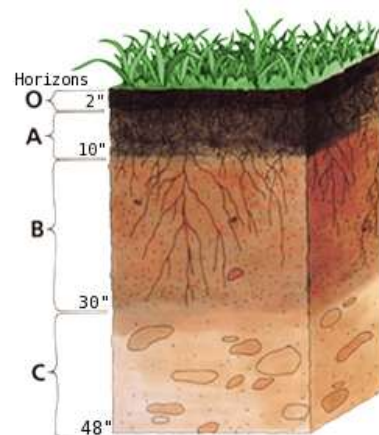
A. It is high in clay
B. It is a silt clay loam
C. It is a coarse sandy loam
D. It will work for building a pond

Correct Answer: C

9. A soil profile is made up of horizons. In the example there are 4 horizons. What is the name of the major horizon B?

A. Subsoil
B. Subsurface
C. Substratum
D. Eluviation

Correct Answer: A



10. The soils of the Bedford County Virginia AOI are comprised of how many General Soil Map Units?

A. 5
B. 18
C. 10
D. 13

Correct Answer: B

11. Rounded to the nearest acre, how many acres of the 1,159.9 in the AOI are designated as Oak Level soil?

A. 12
B. 72
C. 107
D. 73

Correct Answer: C

12. What soil type by soil map unit name comprises the largest acreage observed in the AOI?
- A. Spriggs
 - B. Minnieville
 - C. Codorus
 - D. Clifford

Correct Answer: D

13. What is the map scale of the printed map of the AOI of Bedford County Virginia?
- A. 1:12,500
 - B. 1:15,600
 - C. 1:24,000
 - D. 1:15,600 feet

Correct Answer: B

14. On the printed soil classification map for Prime Farmland classification. How many acres (rounded to the nearest acre) are identified as prime farmland?
- A. 506
 - B. 529
 - C. 325
 - D. 404

Correct Answer: A

15. What soil map units are listed as “Not prime farmland”?
- A. 2xx76
 - B. 2xx6c and 2xx6q
 - C. 2xx5y
 - D. 2xx6c, 2xx6q, 2xx6r, and 2xx76

Correct Answer: D

16. On the AOI map “Depth to Watertable,” which soil units are listed less than 200 cm and what is the % of the acreage?
- A. 2xx76, 0.0%
 - B. 2xx68, 1.0%
 - C. 2xx5y and 2xx68, 2.9%
 - D. 2xx5y, 1.9%

Correct Answer: C

17. What dates were the images photographed of the Bedford County Virginia AOI?
- A. June 3, 2020 and November 12, 2017
 - B. November 12, 2017 and March 3, 2011
 - C. November 12, 2011 and March 26, 2017

D. June 3, 2017 and March 26, 2020

Correct Answer: C

18. Special point features from the Map Legend indicate certain things on the map. Which one indicates a sinkhole?

- A. 
- B. 
- C. 
- D. 

Correct Answer: D

19. The AOI soil map units on the Bedford County Soil Report list the soil texture. Which soil has the highest clay content?

- A. Poplar Forest
- B. Oak Level
- C. Minnieville
- D. Codorus

Correct Answer: A

20. The 2vy6s Clifford sandy loam, what is the depth to restrictive layer?

- A. 6-42 inches
- B. 42-56 inches
- C. more than 80 inches
- D. more than 56 inches but less than 80 inches

Correct Answer: C

21. What is the available water capacity of the Caseville fine sandy loam?

- A. low about 3.5 inches
- B. Low about 5.4 inches
- C. High about 9.6 inches
- D. Moderate about 7.4 inches

Correct Answer: B

22. Which soil type from the AOI is listed as Flood plains landform?

- A. Devotion
- B. Wintergreen
- C. Spriggs
- D. Codorus

Correct Answer: D

23. In the AOI, what special feature is identified on the map?

- A. Wet spot

- B. Clay spot
- C. Other
- D. Landfill

Correct Answer: A

24. All of the following are given as restrictive features for dwellings with basements for the mapping unit 2xx6q EXCEPT:
- A. Depth to hard bedrock
 - B. Flooding
 - C. Depth to soft bedrock
 - D. Slope

Correct Answer: B

25. In the AOI of the Bedford County soil mapping unit, one soil is listed as “High” for Susceptibility to Compaction. Which soil unit is it?
- A. 2xx74
 - B. 2xx6b
 - C. 2xx68
 - D. 2xx71

Correct Answer: D