

Read each question carefully, and use the supplemental resources to answer each question. There is only one correct answer for each question. You will have 30 minutes to complete this practicum. Please bubble in answer selections on scantron prior to completing the practicum.

1. A soil test comes back as 24% sand, 30% silt, and 46% clay. What texture class would this fall into? (Resource 1 – Soil Texture Triangle)
  - a. Silty Clay
  - b. Clay Loam
  - c. Clay
  - d. Silty Clay Loam
  - e. Sandy Clay
2. The Boudreax's want to solidify a platform for a small shed in their backyard, but the soil texture is silty clay with a composition of 5% sand, 55% clay, and 40% silt. What is the minimum percent of sand needed to change the composition to loam? (Resource 1 – Soil Texture Triangle)
  - a. 20%
  - b. 15%
  - c. 10%
  - d. 30%
  - e. 5%
3. According to the web soil survey in Vernon Parish, the Eastwood silt loam (EaC) map unit could have some restrictions on row crop production. Based on the description, which of the following would be one of those restrictions? (Resource 2 – Vernon Parish)
  - a. Ponding
  - b. Flooding
  - c. Frost-Free Period
  - d. Slope
  - e. Water Supply
4. Which property or quality of the Eastwood silt loam (EaC) map unit is not a contributor to the not prime farmland classification rating? (Resource 2 – Vernon Parish)
  - a. Slope
  - b. Runoff Class
  - c. Drainage Class
  - d. Available Water Supply
  - e. C & D are not contributors
5. Which soil map unit is considered to be prime farmland in Vernon Parish? (Resource 2 – Vernon Parish)
  - a. RuD
  - b. VaC
  - c. SaC
  - d. All of the above are classified as prime farmland
  - e. None of the above are classified as prime farmland

6. There are two kind of water tables mentioned in the water features for Resource 2 – Vernon Parish, which of the following map units has the apparent kind of water table throughout the calendar year?

- BeC
- SaC
- GuA
- EAE
- HoC

7. Which of the following is part of the occasional flooding definition? (Resource 2 – Vernon Parish)

- Chance of flooding occurs more than 50% in any year, but less than 50% in all months in any year
- Chance of flooding is 5 to 50% in any year
- Chance of flooding occurs more than 50% in all months of any year
- Chance of flooding is less than 1% in any year
- Chance of flooding is 1 to 5% in any year

8. Which soil map unit is considered to be well suited for *Cyperus esculentus*, or Chufa cultivation? (Resource 3 – Ouachita Parish)

- Gy
- Os
- Ry
- Both A & B are well suited
- Both B & C are well suited

9. A landowner wants to transition their 118 acre property into a wildlife foraging area by using chufa cultivation to increase wildlife species assemblages. Which of the following wildlife species would you expect to benefit by planting flat sedge in areas deemed suitable? (Resource 3 – Ouachita Parish)

- Opossum
- Hog
- Turkey
- White-tailed deer
- Both C & D are correct

10. Which of the following is a soil property that could positively affect the growth of Chufa? (Resource 3 – Ouachita Parish)

- Low water erosion
- Ponding
- Flooding
- High water erosion
- Depth to saturated zone

11. Which of the following rating reasons classifies the Ora-Savannah association (Os) map unit as very poorly suited area for Chufa cultivation? (Resource 3 – Ouachita Parish)

- Drainage
- Climate
- Depth to cemented pan
- Low water erosion
- Fair surface texture

12. Which of the following rating reasons classifies the Guyton-Rosebloom complex (Gy) map unit as a very poorly suited area for Chufa cultivation? (Resource 3 – Ouachita Parish)

- Fair surface texture
- Ponding
- Too acidic or too alkaline soils
- Flooding
- B, C, and D contribute to very poorly suited rating

13. What is measured to determine the degree of soil compaction? It is the mass of soils per unit of volume. (Resource 4 – Winn Parish)

- Bulk density
- Moisture content
- Soil porosity
- Soil hardness
- Drainage

14. Which of the following are factors that are considered when determining soil compaction? (Resource 4 – Winn Parish)

- Soil texture
- Rock fragment content
- Organic matter content
- Bulk density
- All of the above

15. The Guyton silt loam (GY) map unit has a medium soil compaction rating, what is a component of the medium soil compaction rating? (Resource 4 – Winn Parish)

- Soil is able to support standard equipment with minimal compaction
- Soil moisture is sensitive
- Soil moisture is insensitive
- Soil is able to support standard equipment with only minimal increases in density after initial compaction
- Soil will continue to compact with each subsequent pass of standard equipment

16. Which of the following map unit contains the most acreage of prime farmland in Pawnee County, Oklahoma (Resource 5 – Pawnee County, Oklahoma) Note that a county is represented here instead of a parish, like in Louisiana.

- GAMD
- KrdB
- NorC
- ZaHC
- RenC2

17. Landowners in rural Pawnee County, Oklahoma wish to transition this 165-acre parcel of land back to tallgrass prairie to restore upland game bird populations, which of the following map units would not be suitable for this transition? (Resource 5 – Pawnee County, Oklahoma)

- MulC
- NorB
- RenC2
- CoLC
- RenB

18. Surface runoff classes are based on: (Resource 5 – Pawnee County, Oklahoma)

- Slope
- Vegetative cover
- Climate
- Both A and B contribute to surface runoff classification
- A, B, and C contribute to surface runoff classification

19. Which of the following contributes to the Hydrologic Soil Group B definition? (Resource 5 – Pawnee County, Oklahoma)

- Soils have a high infiltration rate
- Soils have a slow rate of water transmission
- Soils that consist chiefly of clay materials that have a high shrink-swell potential
- Soils that have moderately fine to moderately coarse texture
- Soils that have a layer that impedes the downward movement of water

20. The KrdB (Kirkland silt loam) and NorC (Norge silt loam) map units are both classified as prime farmland, if the landowners wanted to plant big bluestem (*Andropogon gerardii*), which of the following would be a limitation of planting this native grass in areas within the KrdB map unit, compared to the NorC map unit? (Resource 5 – Pawnee County, Oklahoma)

- High infiltration rate
- High shrink-swell potential
- Very high surface runoff
- Both B and C are limitations
- All of the above are limitations

**Key**

<b>1</b>	Multiple Choice	C	▼
<b>2</b>	Multiple Choice	D	▼
<b>3</b>	Multiple Choice	D	▼
<b>4</b>	Multiple Choice	E	▼
<b>5</b>	Multiple Choice	D	▼
<b>6</b>	Multiple Choice	C	▼
<b>7</b>	Multiple Choice	B	▼
<b>8</b>	Multiple Choice	C	▼
<b>9</b>	Multiple Choice	E	▼
<b>10</b>	Multiple Choice	A	▼
<b>11</b>	Multiple Choice	C	▼
<b>12</b>	Multiple Choice	E	▼
<b>13</b>	Multiple Choice	A	▼
<b>14</b>	Multiple Choice	E	▼
<b>15</b>	Multiple Choice	D	▼
<b>16</b>	Multiple Choice	B	▼
<b>17</b>	Multiple Choice	C	▼
<b>18</b>	Multiple Choice	E	▼
<b>19</b>	Multiple Choice	D	▼
<b>20</b>	Multiple Choice	D	▼