Answer Key for 2018 Soils Practicum
For Event Use Only

Questions 1 through 25 refer to the either an Area of Interest (AOI) in Madison Parish Louisiana, lab data that relate to map unit designations (soil types) of soils found in the Area of Interest (AOI), or the 1982 Soil Survey of Madison Parish, Louisiana. Based on these resources, answer the following questions.

1.) Which of the following map legend symbols represents a landfill site?

a.) 

b.) 

c.) 

d.) 

2.) During what time frame were the aerial images for the soil resource area of interest photographed?

a.) Jan 1, 1982 to June 30, 1982
b.) Feb 11, 2011 t Nov 9, 2017
c.) May 10, 1979 to July 5, 1980
d.) March 10, 2015 to April 1, 2017

3.) What percentage of the Area of Interest (AOI) was designated as a clay soil?

a.) 39.3%
b.) 41.6%
c.) 9.2%
d.) 46.7%

4.) For the Dundee component of the Dundee-Sharkey complex, gently undulating, what is the land capability classification (nonirrigated) and hydrologic soil group?

a.) 3e and D
b.) 2w and C
c.) 3w and D
d.) 5w and D

5.) For the Sharkey clay (Sc) of 0-1% slopes, what is the depth to a restrictive feature?

a.) 40 to 60 inches
b.) 60 to 80 inches
c.) More than 80 inches
d.) <20 inches

6.) If we compare a map of South Dakota to one from West Virginia what would be the major difference?

a.) West Virginia would have fewer soil types listed.
b.) South Dakota has no survey.
c.) No map exists for West Virginia.
d.) West Virginia would have few roads running in straight lines.

7.) For the Sharkey clay (Sf) with 0-1% slopes, frequently flooded, what is the landform and landform position of the minor component with the greatest percentage of the map unit?

a.) Natural levees and Rise
b.) Natural levees and Talf
c.) Depressions and Dip
d.) Oxbows and Dip

8.) For the 0-3% slopes Tensas-Sharkey complex, Tensas component, what is the depth and soil texture of the 2BC1 soil profile layer?

a.) 27 to 36 inches and a silty clay loam
b.) 36 to 48 inches and a silt loam
c.) 2 to 12 inches and asilty clay
d.) 48 to 60 inches and loam

9.) For the Tunica clay (Tu) 0-1% slopes, rarely flooded, how much available water strage is in the profile of the Tunica clay?

a.) Moderate (about 7.1 inches)
b.) High (about 10.9 inches)
c.) Low (about 3.2 inches)
d.) Moderate (about 7.8 inches)

10.) What is the latitude and longitude coordinates for the Sharkey clay, 0-1% slopes, rarely flooded, south (Sc) map?

a.) Lat 32.4061 N; Long 91.2954 W
b.) Lat 32.3983 N; Long 91.3035 W
c.) Lat 32.2213 N; Long 91.2324 W
d.) Lat 32.3213 N; Long 91.1537 W

11.) In the top 10 cm of soil for the Sharkey clay (Sc), 0-1% slopes, what percentage of the soil is organic matter?

a.) 2.25%
b.) 0.75%
c.) 1.25%
d.) 5.05%

12.) For the Sharkey clay (Sc), what is the range of CEC at pH 7 in cmol charge per kilogram of soil in the top 41 cm of soil?

a.) 39.5 to 48.2 cmol charge/kg
b.) 5.4 to 29.1 cmol charge/kg
c.) 45.4 to 48.2 cmol charge/kg
d.) 32.1 to 45.1 cmol charge/kg

13.) For the Sharkey clay (Sc), what is the engineering rating for dwellings with basements?

a.) Limited
b.) Very limited
c.) Good
d.) Poor

14.) For the Tunica clay (Tu), what is the saturated hydraulic conductivity in mm/hour at a depth of 81 to 152 cm?

a.) 32.4 mm/hour
b.) 0.756 mm/hour
c.) 10.5 mm/hour
d.) 21.7 mm/hour

15.) For the Tunica clay (Tu), what is the soil taxonomy subgroup?

a.) *Vertic Epiaquepts*
b.) *Hydric Epiaquepts*
c.) *Vertic Endoaquepts*
d.) *Inceptisol*

16.) For the Dowling soil series (a minor component of the Sharkey clay (Sf), what is the wildlife rating for growing chufa (yellow nutsedge) for turkey forage in Louisiana?

a.) Poorly suited
b.) Not limited
c.) Very poorly suited
d.) Unsuitable

17.) For the Dowling soil series, what is the potential for radioactive sequestration?

a.) Very low sequestration potential
b.) Moderate sequestration potential
c.) Very high sequestration potential
d.) High sequestration potential

18.) For the Tunica clay (Tu), 0-1% slopes and rarely flooded, what is the forest productivity for cherry bark oak (*Quercus pagoda*)?

a.) 143 cu.ft./ac./yr.
b.) 57 cu.ft./ac./yr.
c.) 100 cu.ft./ac./yr.
d.) 114 cu.ft./ac./yr.

19.) In the Madison Parish soil survey cross section (West to East), how many bayous are shown between the Mississippi River levee and the Tensas River?

a.) 1
b.) 2
c.) 3
d.) 4
e.) 5

20.) For the Tensas-Sharkey association that makes up 18% of the parish, the elevation range is what?

a.) 60 to 80 feet above sea level
b.) 75 to 80 feet above sea level
c.) 65 to 95 feet above sea level
d.) 80 to 100 feet above sea level

21.) What is the total number of acres in Madison Parish?

a.) 13,623
b.) 257,599
c.) 423,680
d.) 575,691

22.) In the entire Madison Parish (not just in the AOI), how many acres are classified as the Tensas silty clay mapping unit?

a.) 12,447
b.) 12,327
c.) 11,448
d.) 21,313

23.) What is the rating for the Tensas (Ta, Ts) soil series on degree and kind of limitations for pond reservoir areas?

a.) Slight
b.) Moderate: seepage
c.) Severe: seepage
d.) Too variable to rate

24.) For the Udipsamments soil series (Us), the degree and kind of limitations for camp areas are which of the following?

a.) Severe: floods
b.) Severe: too sandy
c.) Moderate: wet, percs slowly
d.) Slight

25.) For precipitation or rainfall history in Madison Parish, what month in one year out of ten will have the greatest amount of rainfall?

a.) September
b.) January
c.) March
d.) April
e.) December

Answer Key for 2018 Soils Practicum
For Event Use Only

Answers:

1. C
2. B
3. D
4. B
5. C
6. D
7. D
8. A
9. B
10. B
11. A
12. C
13. B
14. A
15. A
16. C
17. D
18. D
19. C
20. A
21. C
22. B
23. A
24. B
25. C