- 1. What is the primary purpose of a soil survey and classification?
- a. Crop cultivation
- b. Describing weather patterns
- c. Identifying geological formations
- d. Describing and classifying soils in a given area

Answer: d

2. Which of the following is NOT a key application of soil survey and classification?

- a. Land use planning
- b. Environmental conservation
- c. Financial management
- d. Natural resource management

Answer: c

3. Why is the study of soil survey and classification important?

- a. For predicting the stock market
- b. Agriculture optimization and infrastructure planning
- c. Studying outer space
- d. Exploring marine ecosystems

Answer: b

- 4. Which one of the following is an international classification system for soils?
- a. National Soil Index
- b. Global Terrain Classification
- c. World Reference Base for Soil Resources (WRB)
- d. International Soil Taxonomy

Answer: c

5. Who is commonly regarded as the father of soil science and what significant contribution did he make in 1883?

- a. Charles Darwin Theory of Evolution
- b. V.V. Dokuchaev Soil survey and classification in Russia
- c. Gregor Mendel Laws of Inheritance
- d. Marie Curie Radioactivity

Answer: b

6. Why do various systems for soil survey and classification exist?

- a. Due to static nature of soils
- b. Uniformity in laboratory procedures
- c. Dynamic nature of soils and variations in survey purposes
- d. Lack of interest in soil science

Answer: c

7. Which documents guide soil survey practices in the United States?

- a. Global Soil Standards
- b. National Soil Survey Handbook
- c. Earth Sciences Constitution
- d. World Soil Convention

Answer: b

8. How has soil survey evolved from the 19th century to modern times?

- a. Became more general and less detailed
- b. Included fewer electronic databases
- c. Became more detailed, included electronic databases, and published on smaller scales
- d. Only focused on geology

Answer: c

- 9. What is the purpose of Soil Survey Reports?
- a. To advertise soil products
- b. To classify soils for tax purposes
- c. To evaluate soil suitability for various uses and provide interpretations
- d. To list soil surveyors' names

Answer: c

10. What is one important fact about soil survey?

- a. It focuses on predicting the stock market
- b. It only involves fieldwork and not reports
- c. It includes understanding the purpose, tasks, and content of soil survey reports
- d. It is unrelated to agriculture

Answer: c

- 11. What is the first step in surveying an area?
- a. Numerous conferences and meetings
- b. Aerial photographs
- c. Satellite Imagery
- d. Reviews earlier soil surveys
- e. Reviews all maps related to that area

Answer: a

- 12. What qualities should surveyors possess?
- a. Good at public relations
- b. Self-starters
- c. Skilled in observation
- d. Adaptive
- e. Competent

Answer: b, d, e

13. What challenges might surveyors encounter while working?

a. Bad weather

b. Locked gates

- c. Unfriendly landowners
- d. Dogs and wild animals
- e. Interpret soil profiles

f. Look for boundaries where different soils meet each other

Answer: a, b, c, d, f

14. What equipment should surveyors have when working alone or in teams?

- a. Aerial photographs of the area
- b. Legend describing the most extensive soil areas
- c. Global positioning system (GPS)
- d. Digging tools (Shovel, Backhoes)
- e. Hand level
- f. pH-tester
- g. Munsell color book
- h. 1N HCl for lime test
- i. Probe truck or Hand augers

Answer: c, d, e, f, g, h, i

15. What is a Soil Mapping Unit (SMU) according to the survey process?

- a. A specific soil classification
- b. An area of soil delineated from adjacent areas on a map
- c. A type of soil erosion
- d. A soil profile

Answer: b

16. What does a Soil Survey Report primarily contain?

- a. Only soil maps
- b. Interpretations and other information
- c. Conclusions and recommendations
- d. Descriptions of aerial photographs
- e. A legend describing the area

Answer: b

17. What has increased the kinds and amount of data recorded in Soil Survey Reports?

- a. Urban development
- b. Environmental control
- c. Increased demand for information
- d. All of the above

Answer: d

18. What are the two main parts of a Soil Survey Report?

- a. Soil map and Soil profile
- b. Text and Aerial photographs
- c. Classification and Interpretation
- d. Description and Delineations
- e. Maps and Conclusions

Answer: d

19. What are the two kinds of soil maps found in modern Soil Survey Reports?

- a. General soil map and Specific soil map
- b. Aerial soil map and Satellite soil map
- c. General soil map and Detailed soil map
- d. Urban soil map and Rural soil map

Answer: c

20. What kind of data is contained in extensive tables (database) in Soil Survey Reports?

- a. Temperature and precipitation
- b. Soil and water features
- c. Clay mineralogy of selected soils
- d. All of the above

Answer: d

21. What characterizes a Map Unit in soil surveying?

- a. A single soil area
- b. A collection of soil areas defined and named
- c. Any delineated area on a map
- d. A unit without a unique identifier

Answer: b

22. In soil survey mapping, what is the primary characteristic of a Consociation map unit?

- a. Dominated by one component
- b. Composed of various components
- c. Undefined and unnamed areas
- d. Difficult to distinguish from other units

Answer: a

23. How are Complexes and Associations distinguished in soil survey mapping?

- a. Complexes involve two or more dissimilar components
- b. Associations involve components that cannot be separated
- c. Both involve components that can be mapped separately
- d. Complexes have major components that are always mapped separately

Answer: a

24. What is the purpose of "Pre-mapping" in soil surveying?

- a. Finalizing map unit designs
- b. Developing temporary map units based on available map layers
- c. Eliminating the need for digital maps
- d. Ignoring existing analog maps

Answer: b

25. How is the landscape partitioned in the Pre-mapping process?

- a. Based on climate only
- b. By vegetation patterns only
- c. By landform, geology, slope/aspect, and other features
- d. Randomly without consideration for features

Answer: c

26. What are the key steps in designing a map unit?

- a. Define the map unit components, name the map unit
- b. Delineate the areas, know the parameters
- c. Name the map unit, delineate the areas
- d. Know the parameters, define the map unit components

Answer: d

27. What parameters are considered when designing a map unit?

- a. Soil color only
- b. Order or type of survey, scale of mapping, base map, and documentation requirements
- c. Climate patterns only
- d. Delineation width

Answer: b

28. What are the different Orders or Types of Soil Survey, and what do they entail?

- a. Detailed, Semi-detailed, Unordered, Exploratory
- b. Order 1 least intensive, Order 5 most intensive
- c. Order 1 most intensive, Order 5 very extensive
- d. Order 1 for general land management, Order 2 for individual building plots

Answer: c

29. How is the area delineated in the process of designing a map unit?

- a. Only by climate
- b. Only by landform
- c. By partitioning the landscape based on various factors
- d. Without any specific criteria

Answer: c

30. What are the additional components of a Map Unit, and what is a Miscellaneous Area?

- a. Only Family and Series
- b. Family, Series, and Association
- c. Series and Undifferentiated Group
- d. Family, Series, and Miscellaneous Area, which may have little or no identifiable soil

Answer: d

31. How many kinds of soil individuals are estimated in the United States alone, and why is it challenging to remember them all?

a. Over 10,000 b. Over 15,000 c. Over 20,000 d. Over 25,000

Answer: c

32. What is the primary purpose of organizing soil information by classification systems?

- a. To make it more complicated
- b. To ease the memorization of soil names and properties
- c. To confuse soil scientists
- d. To limit the information available

Answer: b

33. What is one of the most generally useful soil classification systems, particularly in the United States and elsewhere?

- a. Economic classification
- b. Physical classification
- c. Soil Taxonomy
- d. Geological classification

Answer: c

34. In early systems of soil classification, what were the main categories?

- a. Economic, Physical, Geological
- b. Chemical, Physiographic, Others
- c. Physical, Chemical, Geological
- d. Economic, Physiographic, Others

Answer: b

35. Who is often regarded as the founder of soil science and introduced the concept of soil as a natural body?

a. Charles E. Kellogg b. Hans Jenny c. Vasily V. Dokuchaev d. Konstantin D. Glinka

Answer: c

36. What does Soil Taxonomy serve as, and when was it released as a basic system for soil classification?

a. A static systemb. A dynamic systemc. Released in 1951d. Released in 1975

Answer: b, d

37. What are Pedon and Polypedon in Soil Taxonomy, and how do they differ?

- a. They both have lateral boundaries
- b. Pedons have lateral boundaries, while polypedons do not
- c. Polypedons have lateral boundaries, while pedons do not
- d. Neither pedons nor polypedons have lateral boundaries

Answer: b

38. What are some key features of Soil Taxonomy?

- a. Only diagnostic horizons
- b. Only hierarchical structure
- c. Classification criteria, hierarchical structure, diagnostic horizons, global applicability, dynamic nature
- d. Only global applicability

Answer: c

39. What is the dynamic nature of Soil Taxonomy, and how does it develop over time?

- a. It remains static
- b. It is updated as new research and knowledge emerge
- c. It was last updated in 1975
- d. It excludes advances in soil science

Answer: b

40. What distinguishes soil horizons from layers in soil classification, and what are Epipedons in Soil Taxonomy?

- a. Horizons are a result of pedogenesis, layers are not; Epipedons are diagnostic surface horizons
- b. Layers are a result of pedogenesis, horizons are not; Epipedons are diagnostic supsurface horizons
- c. Both are results of pedogenesis; Epipedons are diagnostic subsurface horizons
- d. Both are results of pedogenesis; Epipedons are diagnostic surface horizons

Answer: a