**Agriculture in Society**

**Unit 5:** Natural Resources in Agriculture

Unit 5 Test

**Multiple Choice**

*Directions: Circle the correct answer.*

1. Which of the following is a *nonrenewable* energy resource?  
    a) Coal  
    b) Solar  
    c) Air  
    d) Geothermal
2. Which type of energy is produced by spinning turbines with moving water?  
    a) Wind  
    b) Solar  
    c) Hydropower  
    d) Biomass
3. What is the main component in natural gas used for heating and electricity?  
    a) Butane  
    b) Propane  
    c) Carbon dioxide  
    d) Methane
4. What term describes rainwater that soaks into the ground and fills aquifers?  
    a) Runoff  
    b) Surface water  
    c) Groundwater  
    d) Evaporation
5. What is the term for the continuous movement of water through the environment?  
    a) Water transfer  
    b) Hydrologic cycle  
    c) Rain cycle  
    d) Aquifer system
6. Which of the following irrigation systems mimics rainfall?  
    a) Drip  
    b) Surface  
    c) Sprinkler  
    d) Flood
7. Which aquifer is one of the largest and most important in western Oklahoma?  
    a) Ogallala  
    b) Central Oklahoma   
    c) Garber-Wellington  
    d) Rush Springs
8. Biofuels are typically made from:  
    a) Minerals and gases  
    b) Plastic waste  
    c) Organic material and crops  
    d) Nuclear energy
9. The energy resource created from corn and blended into gasoline is:  
    a) Biodiesel  
    b) Ethanol  
    c) Methane  
    d) Crude oil
10. What Oklahoma river forms part of the southern border of the state?  
     a) Arkansas  
     b) Cimarron  
     c) Illinois  
     d) Red
11. What kind of wildlife includes animals without backbones?  
     a) Mammals  
     b) Amphibians  
     c) Invertebrates  
     d) Vertebrates
12. Which term describes the variety of living things in an ecosystem?  
     a) Ecoregion  
     b) Productivity  
     c) Diversity  
     d) Biodiversity
13. The Tallgrass Prairie ecoregion is known for its:  
     a) Big bluestem and other tall grasses  
     b) Short grasses  
     c) Dense forests  
     d) Mountains
14. The Ozark Highlands are located in:  
     a) Southwestern Oklahoma  
     b) Northeastern Oklahoma  
     c) Panhandle  
     d) South-central Oklahoma
15. Which of the following is a reason invasive species are harmful?  
     a) They increase biodiversity  
     b) They help protect native plants  
     c) They reduce native populations  
     d) They improve soil quality
16. Most coal produced in Oklahoma comes from the:  
     a) Northern region  
     b) Eastern half  
     c) Panhandle  
     d) Central plains
17. Which of the following contributes most to Oklahoma's electricity generation?  
     a) Solar  
     b) Coal  
     c) Hydropower  
     d) Natural Gas
18. Which term describes water that flows downhill in rivers or creeks?  
     a) Groundwater  
     b) Precipitation  
     c) Runoff  
     d) Streamflow
19. Which of the following is a common cold-blooded vertebrate in Oklahoma?  
     a) Beaver  
     b) Bobcat  
     c) Bullfrog  
     d) Red-tailed hawk
20. Which group of wildlife includes creatures with exoskeletons and six legs?  
     a) Insects  
     b) Arachnids  
     c) Mammals  
     d) Reptiles

**Part 2: True or False**

*Directions: Write* ***T*** *or* ***F*** *next to each statement.*

1. T / F Solar energy is the leading source of electricity in Oklahoma.
2. T / F A watershed includes all water flowing to a common outlet like a river or lake.
3. T / F The hydrologic cycle includes evaporation, condensation, and precipitation.
4. T / F The Ouachita Mountains are known for prairie grasses and dry air.
5. T / F Center-pivot irrigation uses long rotating pipes to water crops in a circular pattern.

**Part 3: Matching**

*Directions: Match the terms and definitions.*  
 A. Aquifer  
 B. Wind Turbine  
 C. Lake  
 D. Game Species  
 E. Drought

1. \_\_\_\_\_ Underground layer that stores water
2. \_\_\_\_\_ Turning blades create electricity
3. \_\_\_\_\_ Body of water surrounded by land
4. \_\_\_\_\_ Wildlife hunted legally for food or sport
5. \_\_\_\_\_ Long period without enough rain

**Part 4: Short Answer / Essay**

*Directions: Answer each prompt in 3-5 complete sentences.*

1. Why is water conservation important in agriculture, and how can farmers reduce water waste?
2. Explain what invasive species are and give two examples of the damage they cause in Oklahoma.

KEY

1. a
2. c
3. d
4. c
5. b
6. c
7. a
8. c
9. b
10. d
11. c
12. d
13. a
14. b
15. c
16. b
17. d
18. d
19. c
20. a

**True or False:**  
 21. F  
 22. T  
 23. T  
 24. F  
 25. T

**Matching:**  
 26. D  
 27. A  
 28. B  
 29. C  
 30. E