

23. Which of the following is a characteristic of polyaquaculture?
- Only herbivorous fish are raised.
  - Only carnivorous fish are raised.
  - Fish and shrimp are raised in ponds along with algae, seaweed, and shellfish.
  - Fish are raised in estuaries where the flushing action of rivers keeps the wastes moving away from the fish.
  - Multiple kinds of shellfish (crab, shrimp, mussels) are raised in the same pond.
24. Which choice reflects the correct sequence of animal efficiency at converting grain into protein, from the most efficient animal to the least?
- fish, chicken, pigs, beef cattle
  - chicken, fish, beef cattle, pigs
  - pigs, chicken, fish, beef cattle
  - beef cattle, fish, chicken, pigs
  - These animals are all equally efficient at converting grain into protein.
25. The largest contributor to the ecological foot print of most individuals in affluent nations is
- recreational hunting and fishing
  - vacations via air travel
  - residential heating
  - meat production and consumption
  - purchasing more clothing and accessories than are needed
26. Sustainable agriculture is characterized by all of the following *except*
- soil salinization
  - crop rotation
  - soil conservation
  - integrated pest management
  - promoting polyculture practices
27. Which of the following are ways that individuals can support sustainable agriculture through their choices and behaviors?
- waste less food
  - eat locally grown food and meat
  - waste less food and compost food wastes
  - waste less food, eat less meat, compost food wastes and eat locally grown food
  - use a drip system for watering in your own garden
28. Compared to conventional tillage, conservation tillage
- reduces fuel and tillage costs
  - accelerates water loss from the soil
  - causes soil compaction
  - requires increased use of herbicides
  - can qualify the farmer for more government subsidies
29. Which of the following is the correct order of soil particles in order of increasing size?
- Clay-Sand-Silt
  - Clay-Silt-Sand
  - Sand-Clay-Silt
  - Sand-Silt-Clay
  - Silt-Sand-Clay
30. Which of the following would have the best water holding capacity yet the poorest aeration?
- Clay
  - Loam
  - Gravel
  - Silt
  - Sand
31. Which soil horizon has the greatest concentration of organic material?
- A
  - B
  - C
  - O
  - P
32. Which of the following is likely to minimize soil erosion?
- high-yield crops
  - deforestation
  - herbicide use
  - annual plowing
  - no-till agriculture
33. Which of the following methods of agricultural irrigation results in the loss of the least amount of water by evaporation from the surface of the land?
- conventional center-pivot irrigation
  - drip irrigation
  - laser-level irrigation
  - flood irrigation
  - gravity-flow irrigation
34. The major cause for the decline in the worldwide fishcatch since 1990 is
- acid deposition
  - escalating price of fuel
  - competition from aquaculture
  - overfishing
  - decline in market price
35. Irrigation can result in which of the following environmental problems
- Reduction in evaporation rates
  - Accumulation of salts in the soil
  - Waterlogging of soils and plant roots
- I only
  - II only
  - III only
  - II and III only
  - I and III only
36. In which of the following ways did the Green Revolution increase food production?
- The development of disease-resistant and high-yielding crop plants
  - Monocropping and the widespread use of machinery
  - The application of synthetic fertilizers and use of irrigation techniques
- I only
  - II only
  - I and II only
  - II and III only
  - I, II, and III
37. Which of the following is an environmental advantage of no-till agriculture?
- The use of herbicides improves the stability of the soil.
  - Migratory bird populations are reduced.
  - The undisturbed soil is less susceptible to erosion.
  - The crop residues reduce the soil profile.
  - The concentration of CO<sub>2</sub> in the fields is increased.
38. Which of the following is not an environmental or health problem that has been associated with "meat factory farms"?
- The increase of antibiotic-resistant bacteria potentially harmful to humans
  - The overgrazing of large tracts of land
  - The runoff of animal wastes into natural waters
  - The production of huge quantities of manure, creating a waste disposal problem
  - The use of available grain as feed, reducing available food supplies for humans
39. The soil horizon commonly known as subsoil is the
- A
  - B
  - C
  - O
  - R
40. Which of the following is the primary environmental advantage of no-till agriculture?
- The concentration of essential carbon dioxide is increase.
  - The crop residue reduces the O horizon.
  - Migratory bird populations are undisturbed.
  - The use of herbicides improves the overall stability of the soil.
  - The undisturbed soil is less susceptible to erosion.
41. Genetically modified organisms are those that
- have genes from several different members of the same species.
  - have genes of several members of a different species.
  - have genes that have been artificially created in a laboratory.
  - have genes that have bacterial genes for increased resistance, plus the most desirable genes of the species
  - have genes that code for desirable traits from one species that are modified and neutralized so they can be inserted into another species, thus displaying the desired trait.
42. The consequences of overfertilization can include
- sustained fertile soils in years to come.
  - rapid spread of crops into fertile soils.
  - large crop yields per acre.
  - eutrophication in nearby water.
  - very large fruit and vegetables.
43. The Green Revolution is most closely associated with what time period?
- the most recent decade, when industrial agribusiness has been at its peak
  - between World War I and World War II
  - between WW2 and the present
  - between the early 1900s and the present
  - immediately after the Industrial Revolution, when food shortages were the greatest
44. Which of the following practices both reduces erosion and increases soil fertility?
- strip cropping
  - terracing
  - contour farming
  - row cropping
  - line cropping
45. Planting crops in alternating rows of close-growing plants
- creates windbreaks.
  - is called strip cropping.
  - is called crop rotation.
  - increases erosion rates.
  - ally cropping