LIFE SCIENCE	

Class

Student Name

LIEE SCIENCE

The ways that plants are grown are related to needs, technology and the environment

Modifying crops to increase yield

- 1. When growers and scientists work together to get more useful parts per plant, they are trying to increase ...
- A. yield
- B. stability
- C. resistance
- D. sustainability
- 2. An artificial plant environment is one in which all of the growing conditions can be controlled. The following is an example of an artificial environment ...
- A. hydrofoil
- B. hydrogenerate
- C. hydroponic
- D. hydrolysis
- 3. In order to make an artificial environment work without soil, plants are grown in a ...
- A. greenhouse
- B. nutrient solution
- C. terrarium
- D. organic garden
- 4. A canola crop that is grown without irrigation yields 1120 kg of seeds per hectare. With irrigation a canola crop yields approximately 10% more seeds per hectare. The yield per hectare is now ...
- A. 1100
- B. 1160
- C. 1200
- D. 11200
- 5. Spreading manure over cropland is a technique growers use to improve the yield of different crops. This action adds this nutrient to the soil ...
- A. salt
- B. calcium
- C. vegetation
- D. organic matter

New Plant Varieties are Developed by Selective Breeding

- A group of organisms that all have similar traits and who's offspring can reproduce are called a ...
- A. subgroup
- B. species
- C. selection
- D. variety
- 7. The special traits or characteristics that distinguish one organism from another is called a ...
- A. subgroup
- B. species
- C. selection
- D. variety
- 8. A plant that is selected because it is more resistant to disease is an example of ...
- A. personal preference
- B. selective preference
- C. personal breeding
- D. selective breeding

- 9. Scientists can now change plants by going inside the plants cells and modifying some of its genetic material. This process is part of a science called ...
- A. biology
- B. genealogy
- C. microbiology
- D. biotechnology
- 10. A very small section of a plant cell's nucleus is called a ...
 - A. trait
- B. variety
- C. gene
- D. hybrid
- 11. The process which combines genetic material from one organism into another organism, to make a new organism is called genetic ...
 - A. diversity
 - B. addition
 - C. engineering
 - D. recreation
- 12. Canola is an oilseed crop that is valued for its ...
 - A. taste and colour
 - B. durability
 - C. resistance to predators
 - D. health benefits
- 13. The breeding of super weeds may be happening with the Canola crop. This is suspected, because scientists believe the canola plant is cross-pollinating with ...
 - A. wild oats
 - B. wild mustard
 - C. rapeseed
 - D. barley

Controlling Weeds and Pests

- 14. As a pest, fungi and bacteria cause ...
- A. loss of moisture
- B. nutrients to become inactive
- C. infection
- D. plant loss due to consumption
- 15. Dandelions are super weeds because they had no natural controls when they were introduced to North America from Europe. They were brought here to be used as a ...
 - A. flowering plant
 - B. salad vegetable
 - C. medicinal plant
 - D. edible wildflower
- 16. Canola is popular with insects, fungus and weeds. One such pest is wild oats. This pest causes damage because it ...
 - A. devours the canola plant
 - B. steals nutrients and moisture
 - C. causes infection in the canola seed
 - D. cuts off the flow of water to the canola stem
- 17. If a non-native species is introduced to a certain area, without natural predators, it often becomes a pest. A plant that was originally used as a salad vegetable was ...
 - A. Canola
 - B. Mustard
 - C. Dandelion
 - D. Foxglove

- 18. Organic food is food that has been grown without the use of chemical fertilizers and chemical pesticides. To provide the needed nutrients to grow the plants, they use ...
 - A. manure and compost
 - B. tillage and crop rotation
 - C. mulching and companion planting
 - D. clean equipment and good seeds
- 19. Biological control is one way to reduce the effect of pests on plants. To keep a pest's numbers under control, these biological controls would likely be used ...
 - A. invasive species
 - B. natural predators
 - C. exotic species
 - D. non-native predators
- 20. Chemicals that are used as pesticides can wash off many plants and become poisonous in the soil. This is referred to as soil ...
 - A. resistance
 - B. restriction
 - C. regeneration
 - D. residue

Consequences of Environmental Management

- 21. When we don't investigate all of the possible factors and outcomes for our actions in the environment, these might occur ...
 - A. bio-diversification
 - B. bio-accumulation
 - C. natural consequences
 - D. unintended consequences
- 22. One of the effects of monoculture farming practices is that pests feeding on that crop have a large food supply. Monoculture is also a farming practice that actually lowers ...
 - A. cost of pesticides
 - B. biodiversity
 - C. crop yield
 - D. natural predators
- 23. Forestry practice can disrupt some predator-prey relationships. Logging roads actually help predators find their prey, because the prey ...
 - A. are much slower
 - B. cannot be seen as well
 - C. have nowhere to hide
 - D. don't worry about predators
- 24. Using good quality seeds, removing weeds before the seeds mature and planting a variety of crops, instead of a monoculture, will reduce the need for ...
 - A. chemical controls
 - B. biological controls
 - C. cleaning equipment
 - D. crop rotation
- 25. Sustainable practices in the production of plants, such as crop rotation, have led to other benefits that were unintentional. One such benefit is ...
 - A. improving yield by 15%
 - B. more resistant pests
 - C. better chemical controls
 - D. more greenhouse operations

ANSWER H	(EY
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