

*Ministry of Education & Human Resource Development  
Dominica*

*Grade 6  
National Assessment  
May 26, 2017*

**Time: 75 minutes**

**DO NOT TAKE THIS PAPER OUT OF THE EXAMINATION ROOM**

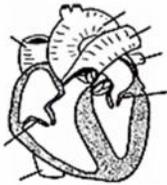
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*Science and Technology*



**LIFE SCIENCE**

1. In which body system would you find the trachea?



A



B

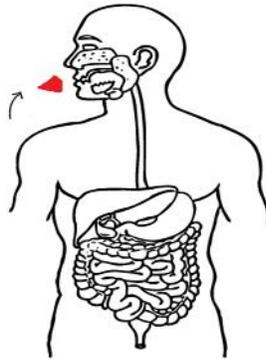


C



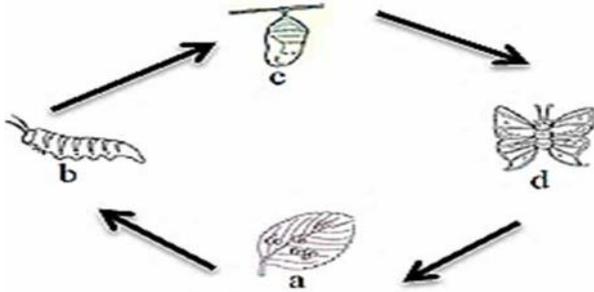
D

2. Identify the path taken by a piece of cheese through the alimentary canal during the digestion process.



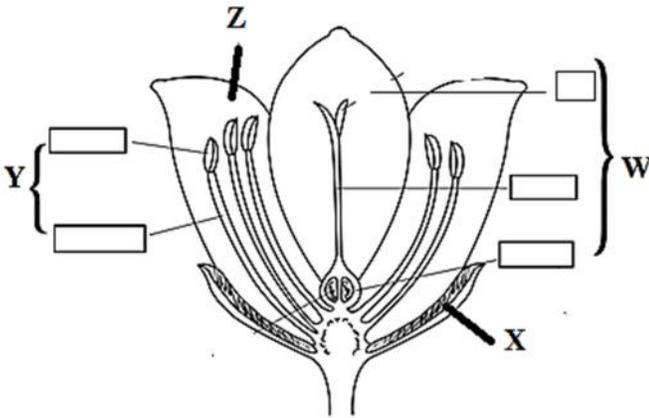
- A. mouth, stomach, esophagus, intestines, rectum and anus
- B. stomach, esophagus, mouth, intestines, anus and rectum
- C. mouth, esophagus, , stomach, intestines, rectum and anus
- D. esophagus, stomach, mouth, intestines, anus, rectum

3. Which characteristic of living things does the diagram below **BEST** illustrate?



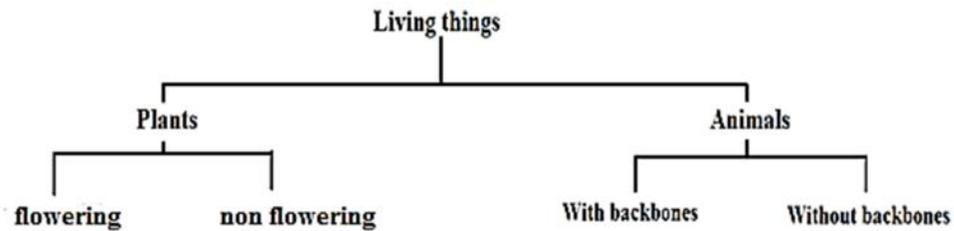
- A. reproduction
- B. growth
- C. movement
- D. sensitivity

4. Which letter labels the female reproductive parts in the flower below?



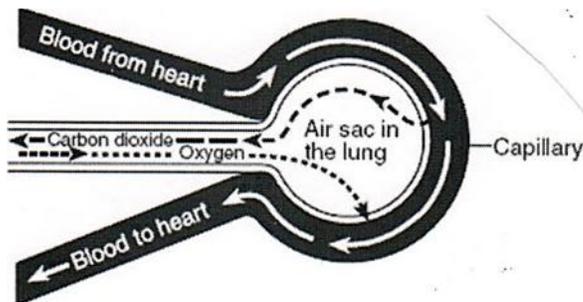
- A. W
- B. X
- C. Y
- D. Z

5. Living things can be divided into groups as shown in the diagram below.



A characteristic that separates plants into two groups is whether they

- A. have backbone or not
  - B. have roots and leaves or not
  - C. can make their own food or not
  - D. have flowers or not
6. The diagram below shows a magnified view of an air sac in the human lung.



Which two body systems are working together in this diagram?

- A. reproductive and digestive
  - B. circulatory and digestive
  - C. respiratory and reproductive
  - D. circulatory and respiratory
7. The flow of energy from one organism to the other can be demonstrated with the use of diagram depicting a/an
- A. electrical circuit
  - B. food chain
  - C. magnetic field
  - D. water cycle

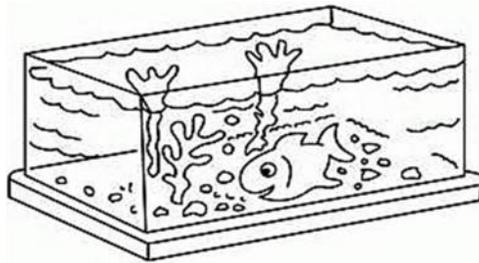
8. Study the picture below carefully.



The picture best describes

- A. pollution
- B. a population
- C. water cycle
- D. habitats

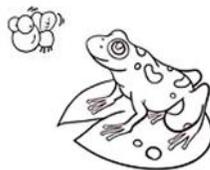
9. In order for the fish to breathe properly, it must have an adequate amount of



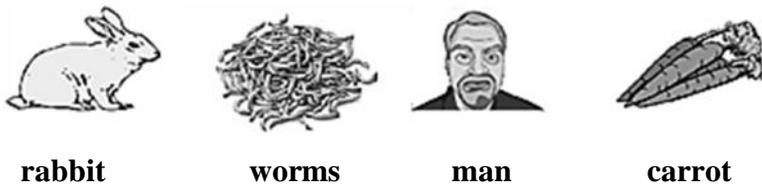
- A. food
- B. oxygen
- C. warmth
- D. space

10. An adult frog feeds on insects. What type of **consumer** is the frog in the picture shown below?

- A. decomposer
- B. herbivore
- C. parasite
- D. carnivore



11. When the following organisms shown below, are arranged into a food chain, the order would be



- A. carrot → rabbit → man → worms  
B. rabbit → worms → man → carrot  
C. carrot → man → worms → rabbit  
D. worms → carrot → rabbit → man

12. Which habitat, do you think, will be the largest among those listed below?

- A. forest
- B. ocean
- C. desert
- D. tundra

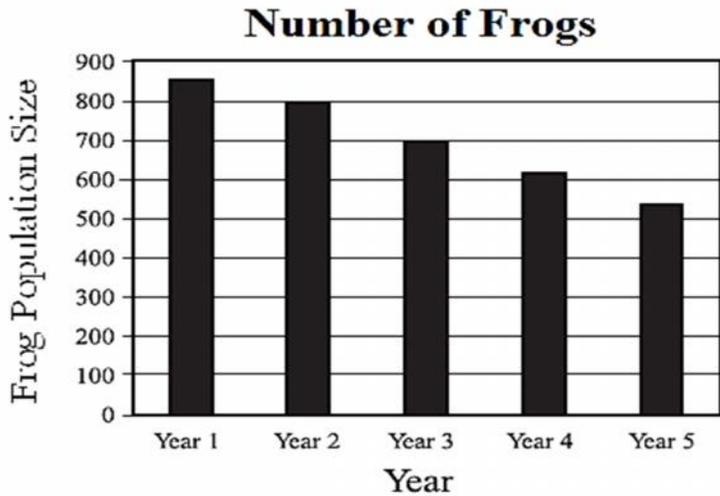
13. Which of the following is responsible for the return of nutrients into the ecosystem?

- A. decomposers
- B. producers
- C. consumers
- D. scavengers

14. What behavior helps living things survive in a changing environment?

- A. producer
- B. ecosystem
- C. food chain
- D. adaptation

The diagram below shows the number of Mountain Chickens (frogs) in Dominica and how the population has changed over the years.

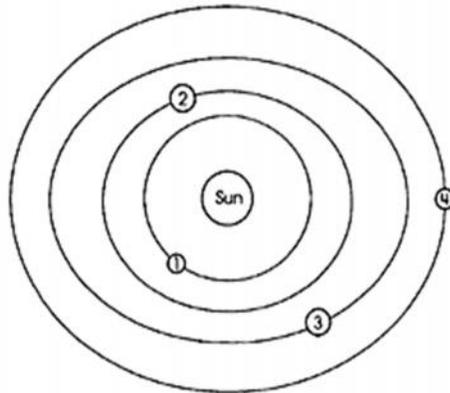


15. Which of the following is the **BEST** possible explanation for a change in the frogs' population?
- A. Frog parasites decreased in Dominica.
  - B. The temperature increased in Dominica causing a change in population.
  - C. Frog prey and increased diseases in Dominica affected the population.
  - D. The amount of plants and animals increased.

**EARTH AND SPACE**

16. In what direction does the Earth rotate or spin on its axis?
- A. west to east
  - B. east to west
  - C. north to west
  - D. south to north

Study the diagram carefully to answer question 17



17. The planet labelled **3** is called?

- A. Mars
- B. Mercury
- C. Earth
- D. Venus

18. What type of **renewable** energy can be used to make a calculator work?



- A. battery
- B. gears
- C. magnet
- D. solar

19. What do **wind**, **water** and **heat** all have in common?

- A. they all are pure elements
- B. they all are renewable resources
- C. they all make life easier
- D. they are all non-renewable resources

20. Which of these is a **non-renewable** resource?



**rock**



**banana tree**



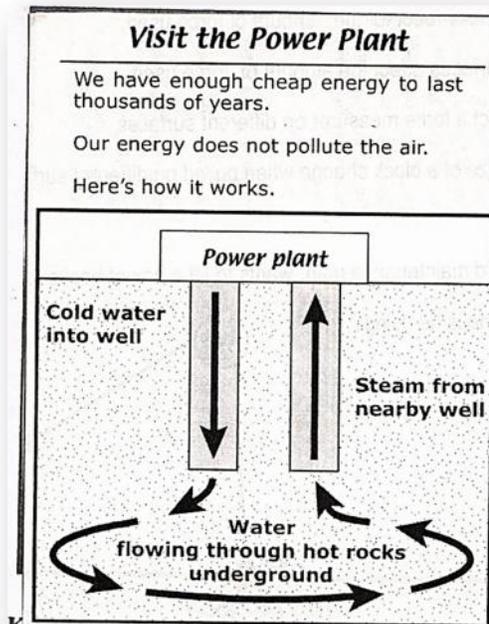
**river**



**wind**

- A. rock
- B. banana tree
- C. river
- D. wind

21. The advertisement shown below was seen in Laudat. What type of energy is being used?

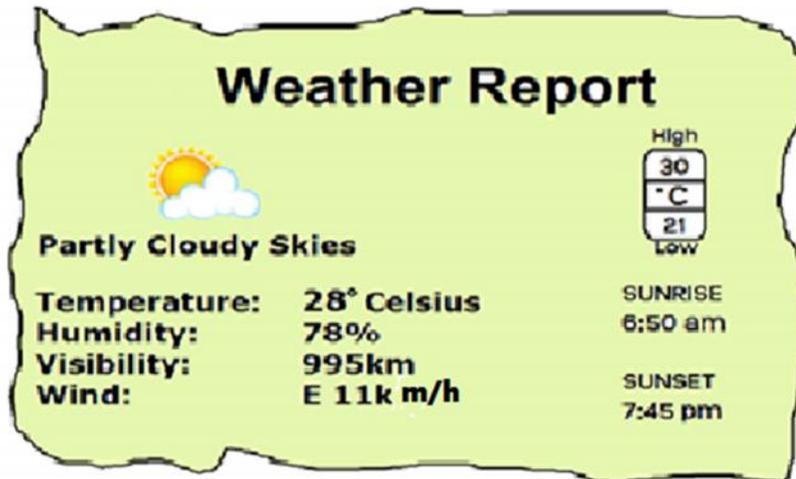


- A. solar
- B. hydro electricity
- C. wind
- D. geothermal

22. Dan wants to know how much moisture is in the air. Which of the following weather instruments would he use to collect his data?

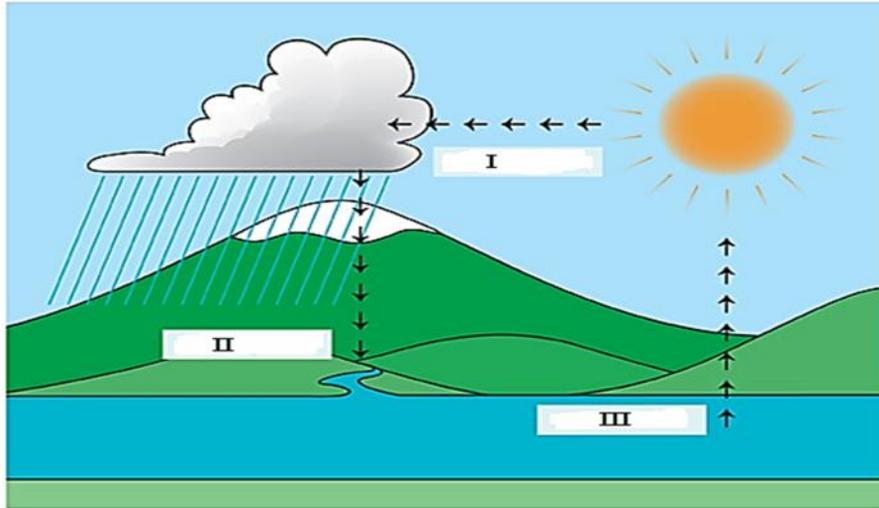
- A. anemometer
- B. wind sock
- C. barometer
- D. hygrometer

23. Study the weather report below.



The above is an excerpt from a weather report. Which of the following readings was taken from an anemometer?

- A. 995 km
  - B. E 11km/h
  - C. 28° Celsius
  - D. 78%
24. Which of the following is caused by climate change?
- A. Planting of trees
  - B. Overuse of cell phones
  - C. lack of emergency shelters
  - D. Severe storms
25. In the water cycle illustrated below, which process is labelled **II**?



- A. precipitation
- B. evaporation
- C. condensation
- D. run off

**PHYSICAL SCIENCE**

26. Study the picture below carefully



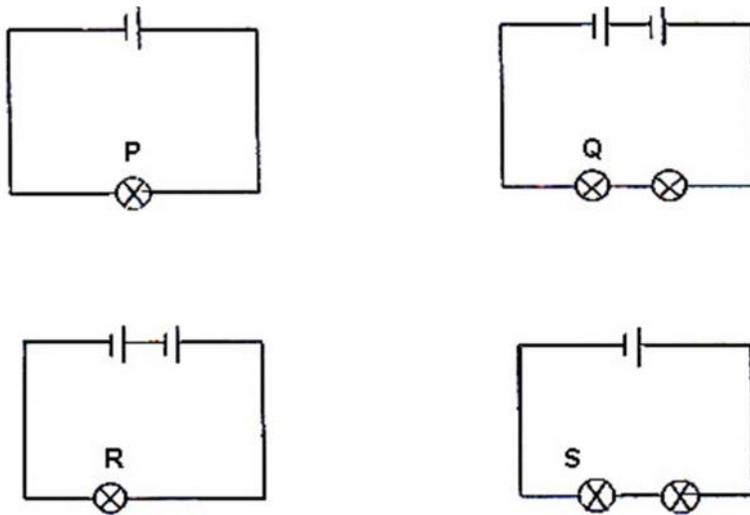
What forms of energy are being used to dry the clothes on the line?

- A. heat and mechanical
  - B. electrical and heat
  - C. thermal and sound
  - D. sound and electrical
27. Shem left four different containers with equal amounts of water in the sun. Which of the following **BEST** describes what he was experimenting?



- A. volume of water
- B. shape of the dishes
- C. rate of evaporation
- D. amount of heat

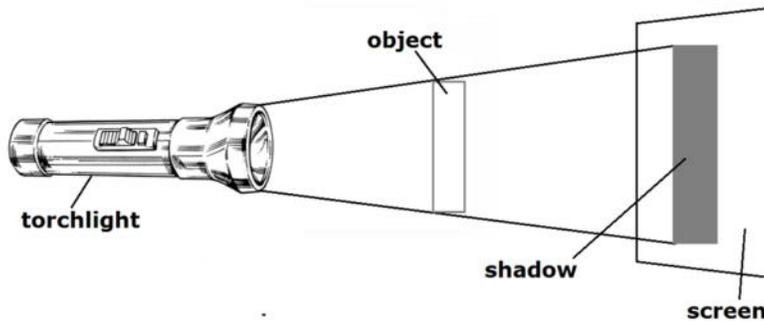
28. The diagram below shows 4 circuits with different arrangements of identical **cells** and **bulbs**. The bulbs in all circuits light up.



In which one of the following circuits would the bulb(s) produce the **BRIGHTEST** light?

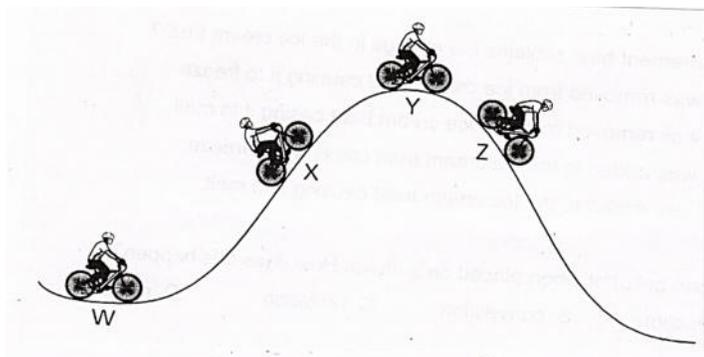
- A. S
- B. R
- C. Q
- D. P

29. A beam of white light is shone onto the object in the diagram below and cast a **dark** shadow on the screen. Which one of the following **objects** is it likely to be?



- A. a plane mirror
- B. a tracing paper
- C. a clear plastic paper
- D. a bar of ice

30. In the diagram shown below, a bike is stopped at different positions on a hill. In which position will its potential energy be **GREATEST**?

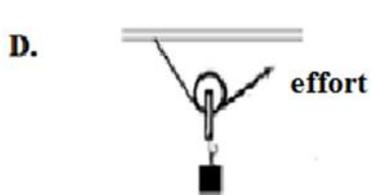
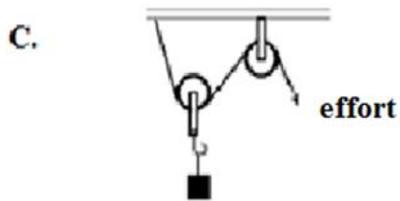
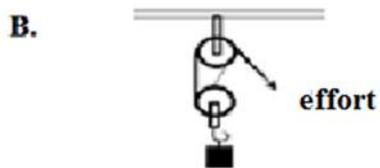
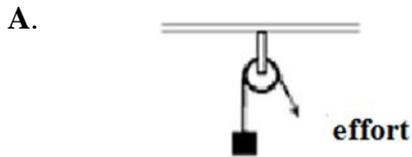


- A. W
- B. X
- C. Y
- D. Z

31. In which of the following pictures below will the boy hear the **LOWEST** pitch when he blows across the bottles?



32. Which one of the pulley system shown in the diagrams below requires the **MOST** effort to lift the same weight?

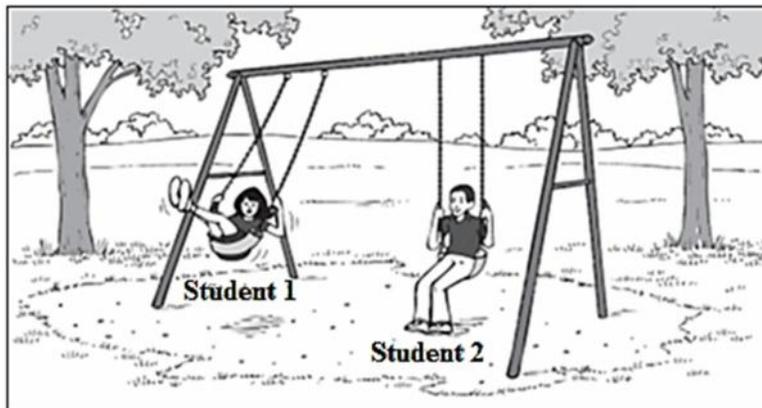


33. To get the barrels on top of the truck, what can you make best use of?



- A. block and tackle system
- B. wheel and axle
- C. Inclined plane
- D. screw jack

34. Study the diagram carefully to answer the question that follows.



Two students are playing on a swing set. Student 1 is leaning back and extending her legs as she moves upward. Student 2 is sitting on the swing with his feet on the ground.

Which statement **BEST** describes how **position and work** are related in this picture?

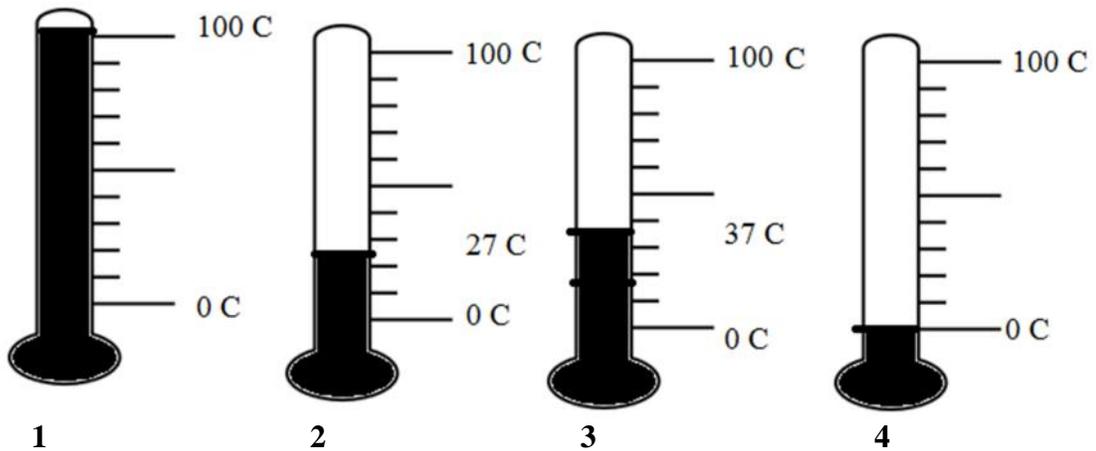
- A. Both students are doing work because they are on the swing.
  - B. Work done by Earth's gravity prevents Student 2 from changing position
  - C. Work is done by the swings because one swing is changing position
  - D. Student 1 is changing position because work is being done on the swing
35. A moving vehicle was stopped by applying brakes. What type of force was applied?

- A. weight
- B. friction
- C. momentum
- D. gravity

36. Which state of matter has the particles packed the **MOST** tightly together?

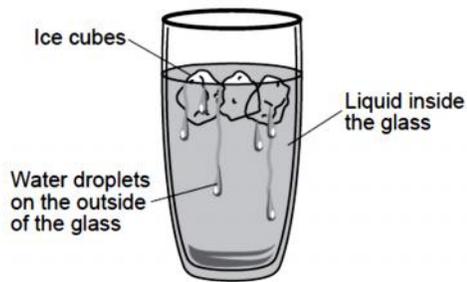
- A. solid
- B. plasma
- C. gas
- D. liquid

37. Which thermometer shows reading for the **boiling point** of water?



- A. 1
- B. 2
- C. 3
- D. 4

38. In the diagram, which process caused the water droplets to appear on the outside of the glass?



- A. condensation
- B. evaporation
- C. precipitation
- D. sublimation

39. In the picture below, if more air can still be pumped into the car's tyre, this tells us that air



- A. has weight
- B. has no volume
- C. occupies space
- D. has no mass

40. Which one of the following substances will **NOT** dissolve in water?

- A. powdered milk
- B. powdered chalk
- C. honey
- D. salt

**AGRICULTURE SCIENCE**

41. Agriculture is **best** described as
- A. the business of growing of crops and raising animals for human use and consumption
  - B. the growing of crops for human use and consumption
  - C. the raising of animals for human use and consumption
  - D. the use of machines to produce crops

42. Which type of soil holds more water?

- A. sandy soil
- B. loamy soil
- C. river sand
- D. clayey soil

43. Study the picture below.

Before laying a plant into the hole, some **compost** was placed at the bottom of the hole and covered with soil. **What is compost?**

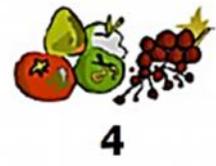


- A. A mixture of different types of soil
  - B. A mixture of fertilizers
  - C. A mixture of sand and stones
  - D. A mixture of dry leaves and stalks, vegetable peels, animal waste, kitchen waste
44. A farmer plants corn over and over on the same piece of land. He notices that he gets less corn each time he harvests. He manages the soil by making sure that he ploughs the land before planting and waters the plants using an irrigation system.

What else can the farmer do to eventually increase the quality of his corn harvest on that same piece of land?

- A. keep the soil moist
- B. build drains around his garden
- C. plant some short term legumes
- D. weed his garden regularly

45. Which picture shows one of the **safety** practices usually employed by farmers when managing their farms?



- A. 1
- B. 2
- C. 3
- D. 4

46. Which of the following pests is **MOST** harmful to cabbage and lettuce crops?

- A. Caterpillars
- B. Birds
- C. Poison ivy
- D. Beetles

47. Which of the following crops grow **BEST** in greenhouses?

- A. citruses
- B. mangoes
- C. vegetables
- D. bananas

48. A farmer who wants to go into poultry farming would raise

- A. chickens, turkey, pigs

- B. ducks, geese, rabbits
- C. chickens, turkeys, ducks
- D. rabbits, pigs, goats

49. Which of the following is commonly known as a **Lionfish** and is very aggressive to other marine life in the Caribbean sea?



1



2



3



4

- A. 1
- B. 2
- C. 3
- D. 4

50. The skin of cattle is used to make



- A. beef
- B. dairy products
- C. wool
- D. leather