

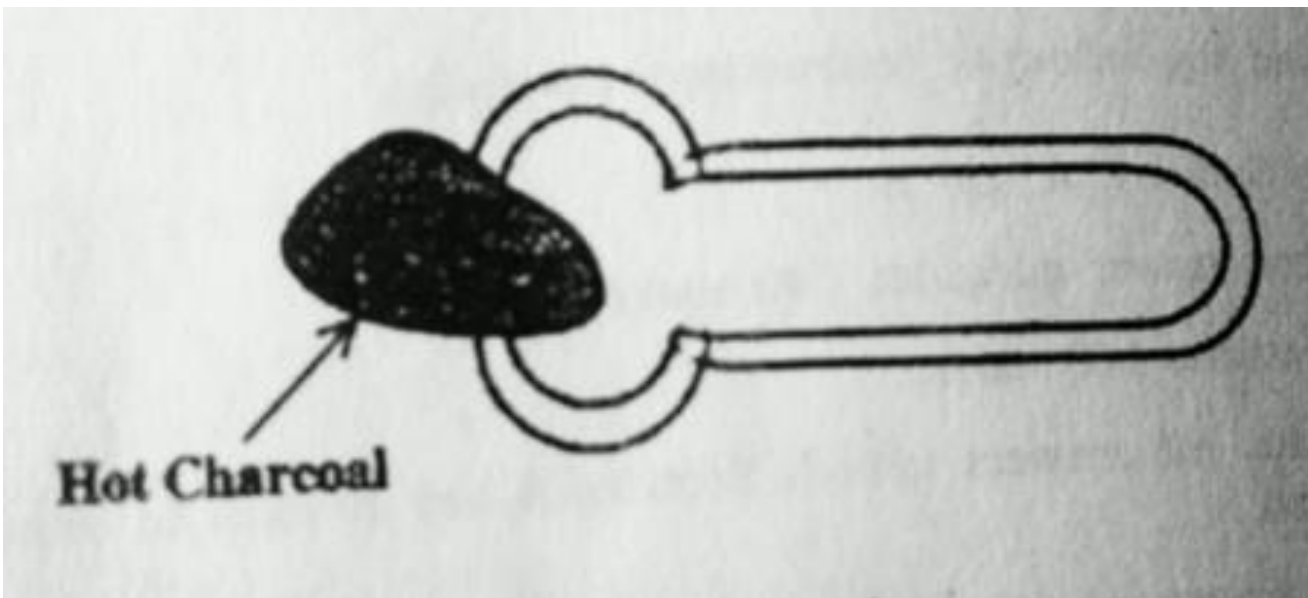


P.L.E SCIENCE 2003

SECTION A

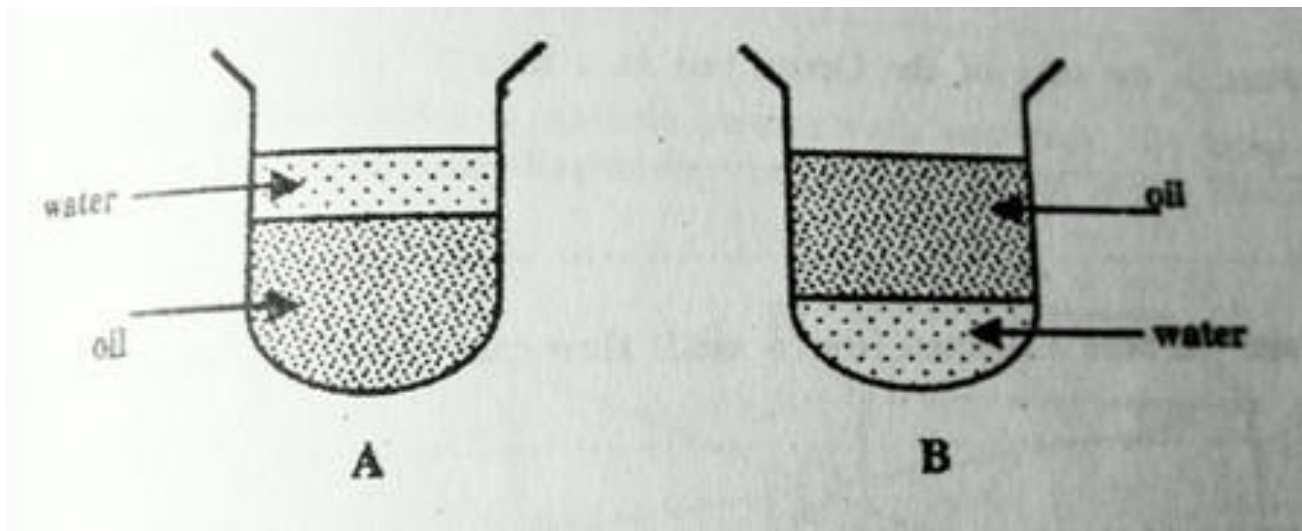
1. What kind of change takes place when ice melts to form water?
2. Give any one reason why farmers prefer keeping cross-breed cattle other than the exotic ones.

The diagram below is of a simple machine. Use it to answer questions that follow.



3. Indicate with letter E the position of the effort.
4. What class of lever is this machine?
5. What is the importance of leaves to a plant?
6. In which way is the breathing of a crocodile different from that of a fish?
7. The same amount of oil and water were poured into the container shown in A below beginning with oil and then water. When the container was checked after sometime, oil was found on top of the water as shown in B.

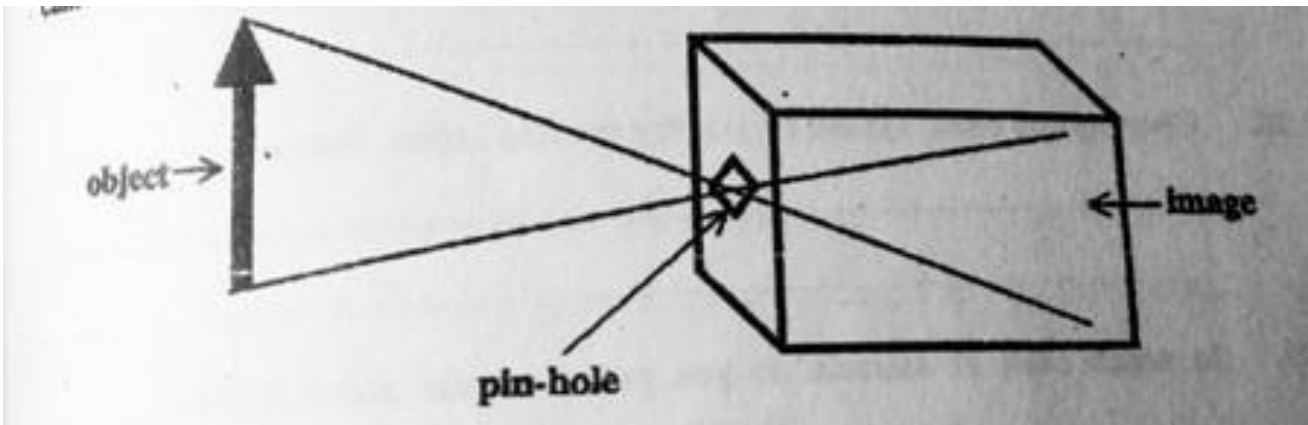
Use the diagram to answer the question that follows:



Why did the oil come on top of the water?

8. Why is it bad to cut finger nails using your teeth?
9. Give any one problem that may be faced by a school girl who becomes pregnant.
10. Give any one reason why a latrine should be 10 meters away from the living house.
11. Give any one practice in a home that would help in the control of malaria.
12. Apart from teeth, which other weapon does a dog use for protection?
13. What is the duty of the Queen bee in a hive?
14. Water has been collected from a well. How can it be made safe for drinking?

15. How are animals different from plants in the way they get food?
16. Give any one reason why a patient should take a drug only when it is prescribed by a medical person.
17. State any one agent responsible for dispersing mango seeds.
18. Draw an example of a compound fracture.
19. Whenever Mubiru runs on a sunny day, he sweats. What is the importance of sweating to his body?
20. The diagram below shows a pin-hole camera's with an object. The image has been left out. Complete the diagram by drawing the image in the pinhole camera.



21. Which organ in your body helps you to find out whether something is sweet or bitter?
22. Give the general name of blood vessels which carry blood away from the heart to various parts of the body.
23. Give any one use of cow-dung to farmers.
24. Give any one reason why it is not advisable to breathe through the mouth.
25. Why does it go to the kidneys during circulation?
26. At what time of the day are shadows shortest?

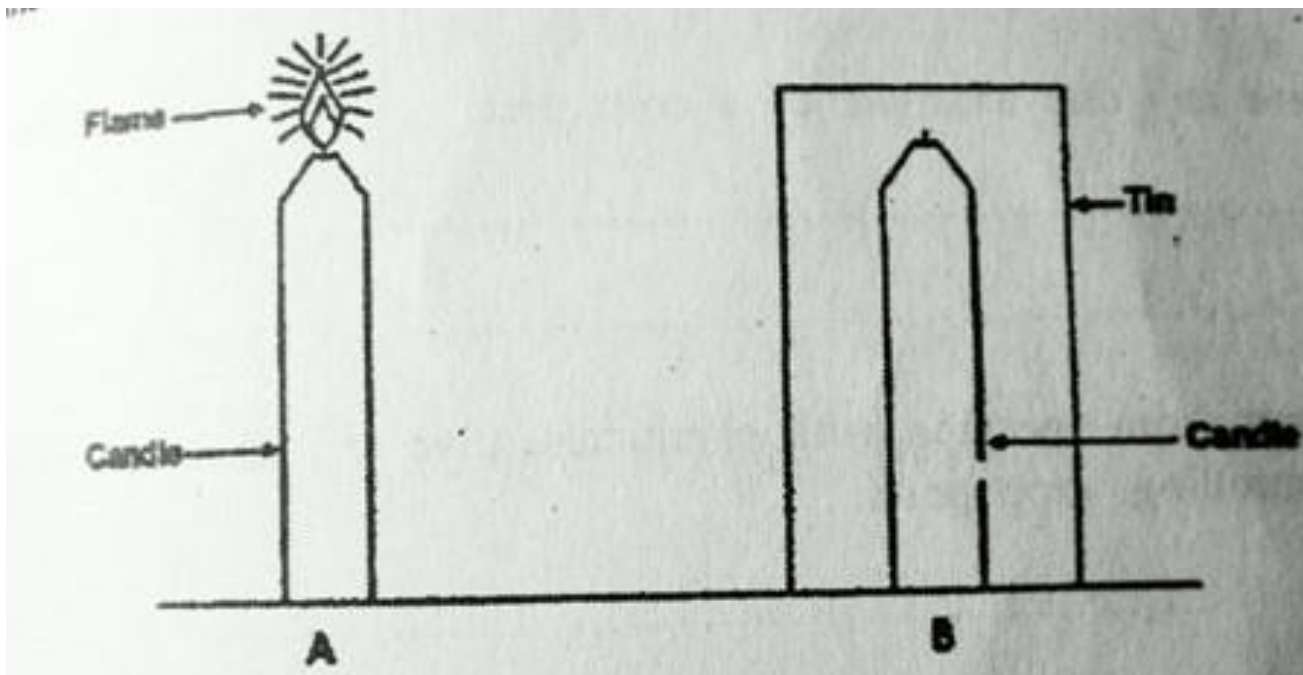
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27. Why do tyres of cars wear out more quickly on tarmac roads than murram roads?
28. Give any one other system of poultry farming, apart from a free-range system.
29. In which class of animals do you put a tortoise and a lizard?
30. Our school pit latrine smells a lot and is always full of flies. What measure can we take to prevent this situation?

Susan shouted loudly in a big house. As she shouted, she heard another similar sound.

Answer the questions 31 and 32 using this information.

31. Give the name of the similar sound Susan heard after shouting.
32. How was the sound you have named in question 31 formed?
33. Give any one other factor to be considered when choosing a site to build a house, apart from security, raised land, nearness to the main road and availability of water.
34. Give any one state of matter.
35. Why is transpiration important in green plants?
36. State any one effect of air pollution on people.
37. In the diagram below, a candle was burning as shown in A, then it was covered with a tin as shown in B. After sometime the candle stopped burning. Use the diagram to answer the question below:



Why did the candle flame B go off after sometime?

38. Give any one function of a spinal cord in a human body.
39. What type of energy do you have when you are seated in the class?
40. Suggest one reason why an individual should promote personal hygiene?

SECTION B

41. a) What is a crop pest?
- b) Give any one example of a crop pest.
- c) Apart from spraying with chemicals, give any other two ways of controlling crop pests.
42. a) Give any one habit that may lead a person to catch AIDS.
- b) Suggest the best way of controlling the spread AIDS.

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c) Give any two signs that show that an individual is suffering from AIDS.

43. a) What is the use of a clinical thermometer?

b) Give any one reason why there is a bend in the tube of a clinical thermometer.

c) Which Liquid is mainly used in thermometers?

d) Why is the liquid you have named instead of other liquids?

44. a) Name any one disease that is immunised against at birth.

b) Which site on the body is measles immunisation usually given?

c) Why are pregnant women immunised against tetanus?

d) How does tetanus get into our bodies?

45. a) Give one natural process in plants in which:

i) Oxygen is used.

ii) Carbon dioxide is used.

b) What is useful by-product is produced in (a) (ii) above?

c) Give any other natural process that uses oxygen.

46. Show the difference between the first-class lever and the second class lever by drawing and labelling the two diagrams.

47. a) In which one way is the function of the skin similar to that of lungs?

b) Give an example of a practice which will prevent the skin to function properly.

c) Suggest any two ways in which the proper functioning of the skin can be promoted.

48. a) Give any two reasons for preserving meat.

b) Give one traditional way of preserving meat in Uganda.

c) Give any one modern way of preserving meat.

49. a) You are running home with your friends after school and one of your friends accidentally falls and his thigh bone breaks.

b) What do you call the injury he has got?

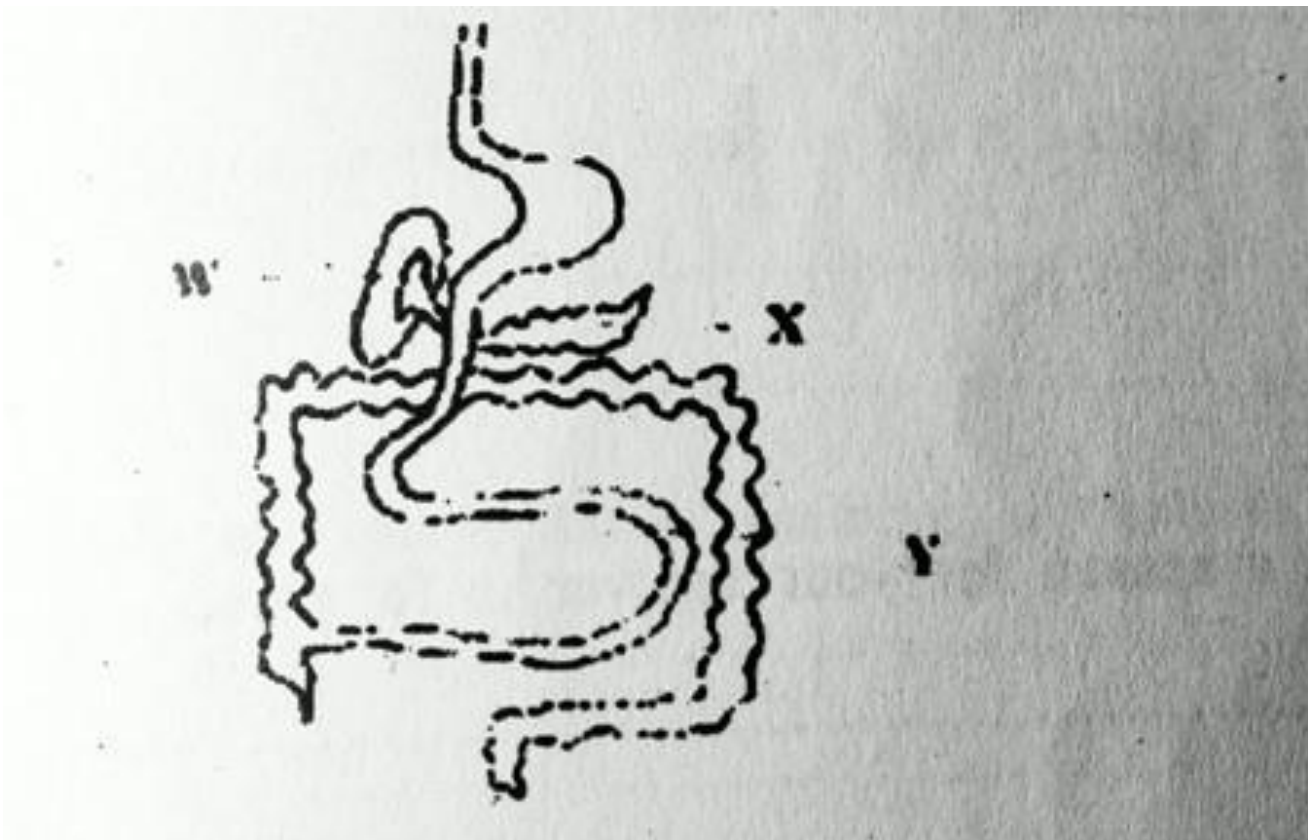
c) Give two things you will do to give him First Aid.

d) You and your friends decided to carry him properly?

50. a) What type of electricity is generated at Jinja?

b) What is the difference between solar and thermal electricity?

51. The diagram below shows the alimentary canal of a human being. Use it to answer the questions that follow.

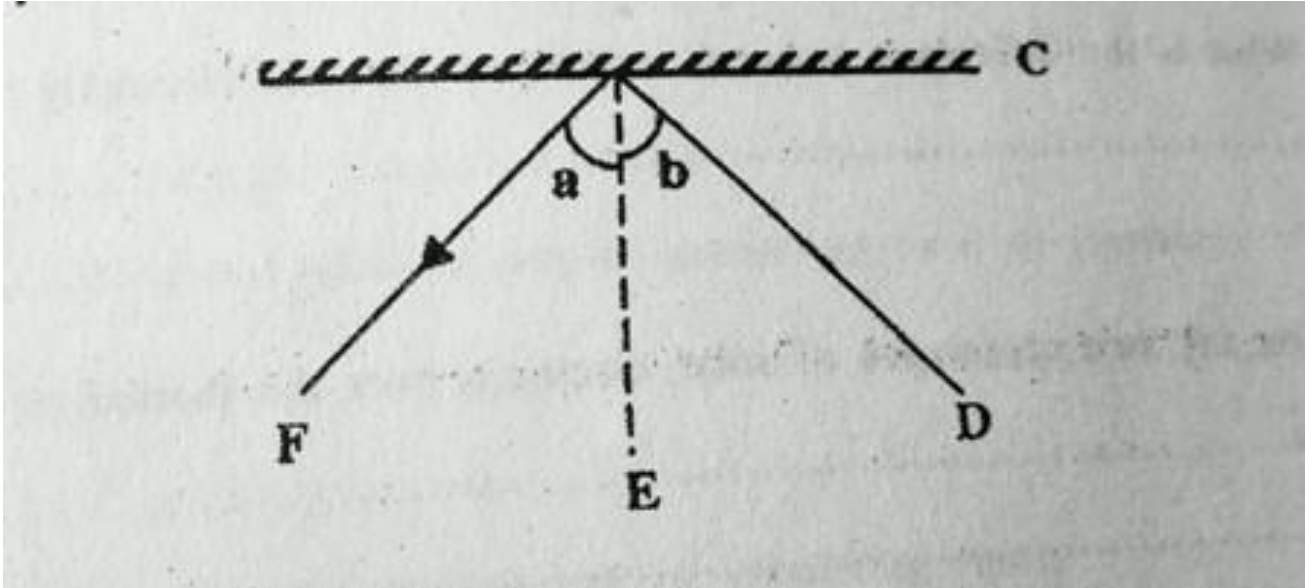


a) Name the part marked W and X.

b) State any one process that takes place in part labelled Y.

c) Give one function of the organ labelled X.

52. The diagram below shows a ray of light striking the mirror. Use it and answer the questions that follow:



a) Name the part marked C.

b) Put an arrow on line D to show the direction of the ray of light.

c) If angle $b = 40^\circ$, what is the size of angle a ?

53. a) Which vector spreads dysentery?

b) Give any two ways of controlling dysentery in our homes.

c) Why should a person suffering from dysentery given Oral Rehydration Salts (ORS)

54. Study the table below and answer the questions that follow:

LIST A	LIST B
Tilapia	Rat
Frog	Goat
Crocodile	Lion
Dove	Whale

a) What is the similarity in the way animals in list A reproduce?

b) To which class of animals do those in list B belong?

c) In which way is tilapia in list A similar to a whale in list B?

d) What is common about the animals in list A and in list B?

55. a) Draw a bean seed and show a scar and micropyle.

b) Draw a split bean seed and show a plumule and radicle.