

# PLE

## PRIMARY LEAVING EXAMINATION

### Basic Science and Health Education – 1985 SECTION A

1. What is the main function of a leaf?

.....  
.....

2. What are the swellings on the roots of leguminous plants called?

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.....

3. By what means do plants called mosses

produce?

.....

.....

4. To which group of plants does the plant shown below belong?

.....

.....



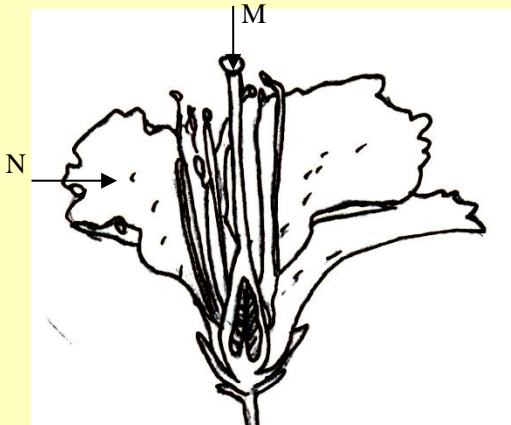
5. Give one example of a stem tuber?

.....

.....

6. What do we call the type of farming in which animals are kept and crops are grown on the farm?

**The diagram** below shows a part of a potato flower. Use it for answering questions 7 and 8.



7. Name the part labeled M.

.....  
 .....

8. What is the main function of the part labeled N?

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 .....

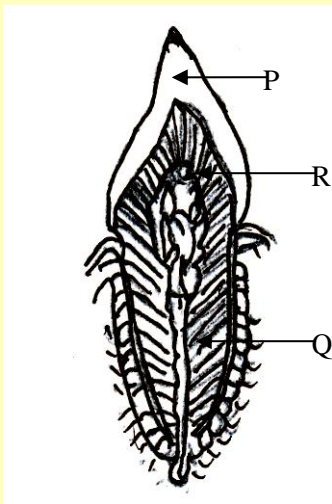
9. Name the blood vessel which carries blood from the right ventricle to the lungs?

.....

.....  
10. What is the main function of the red blood cells?  
.....

.....  
11. In which part of human body does oxygen get into cells?  
.....

.....  
The **diagram** below is of a mammalian tooth.  
Use it to answer questions 12,13and 14.



12. Name the part labeled P.

.....  
.....

13. Name the part labeled Q.

.....  
.....

14. What is found in part labeled R.

.....  
.....

15. Name one substance which is necessary for the growth of strong and healthy teeth.

.....  
.....

16. What name is given to the group of animals which can live both on land and in water but lay eggs in water?

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.....

17. What disease is caused by lack of vitamin C ?

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.....

18. Give an example of an infectious disease ?

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.....  
19. What insect spreads sleeping sickness?  
.....

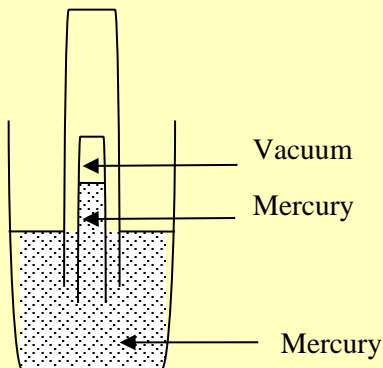
.....  
20. Give one symptom of yellow fever.  
.....

.....  
21. When salt is put in water and stirred, it disappears completely. Why does it disappear?  
.....  
.....

22. State a major difference between liquids and solids.  
.....  
.....

23. When water freezes, it becomes ice. What happens to water when it boils?  
.....  
.....

24. What instrument is shown in the **diagram** below?



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25. White light is passed through triangular prism onto a white screen. State what will be observed on the screen.

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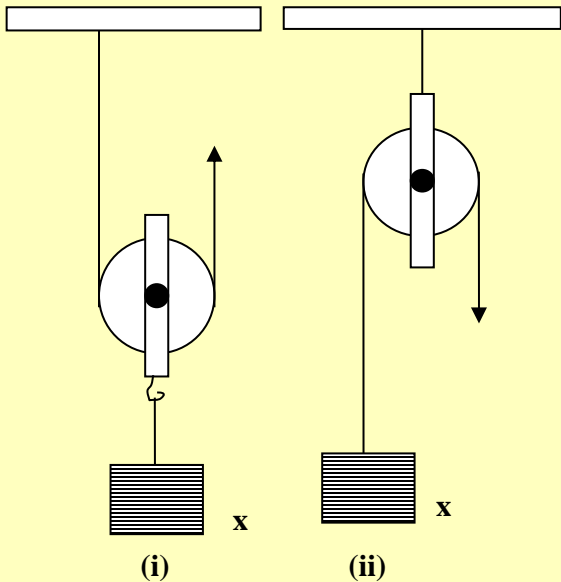
26. Name one device which can convert mechanical energy to electrical energy.

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27. The **diagrams** (1) and (11) below show arrangements of single pulleys used to raise a

load X. In which arrangement is less forces used to rise X ?



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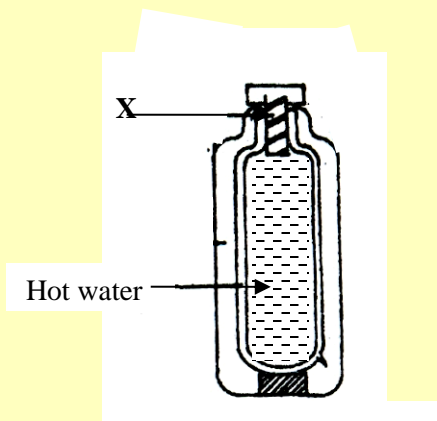
28. What can be used to find a sewing needle which has dropped into the sand?

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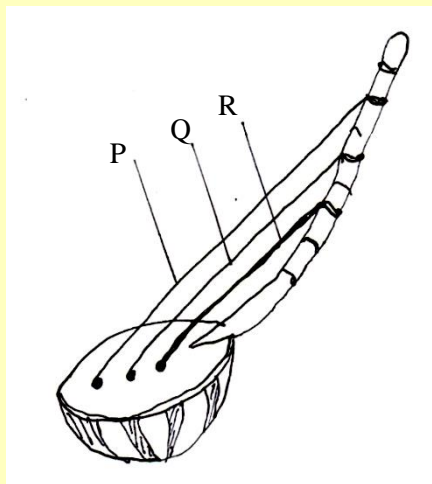
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29. The **diagram** is of a thermos flask. Why does the part marked X prevent the loss of heat?

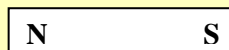


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 .....  
 30. The **diagram** below is of a local instrument. The strings labeled PQR are made of the same material and are of the thickness and tightness. Which one of the strings produces sound of the highest pitch?  
 .....  
 .....

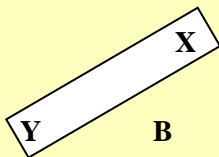


31. A magnet is freely suspended horizontally. What direction will it come to rest?

.....  
 .....



A



B

32. In the **above diagram**. Magnet A is closed to magnet B swing freely and rests in the Position shown above. What is Y of magnet B?

.....  
.....

33. What do we call a material which does not conduct electricity?

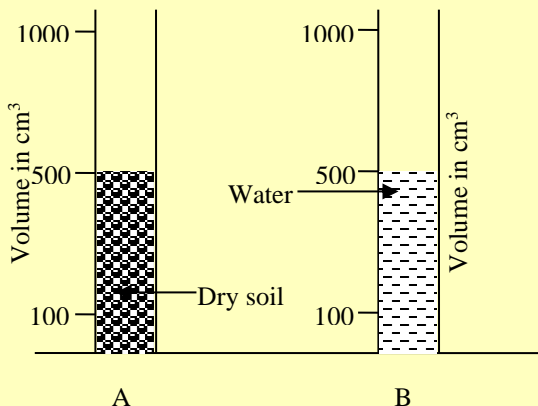
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34. When a plastic rod is rubbed against a woolen cloth is picks up light pieces of paper? Why is the plastic rod able to attract the pieces of papers?

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.....

35. Give one example of metal which does not rust

.....  
.....



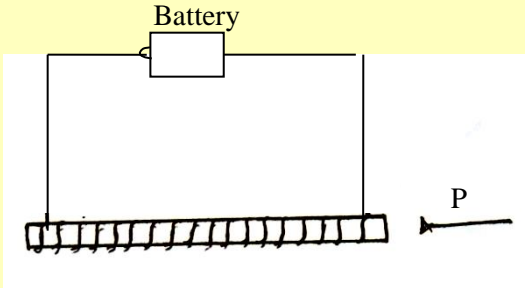
36. In the **diagram** above all the water from beaker B is carefully poured into beaker A and when the measurement of a combined mixture is taken, the volume is found to be  $900\text{cm}^3$ . State the reason why the volume of the combined mixture is not  $1000\text{cm}^3$  as expected.

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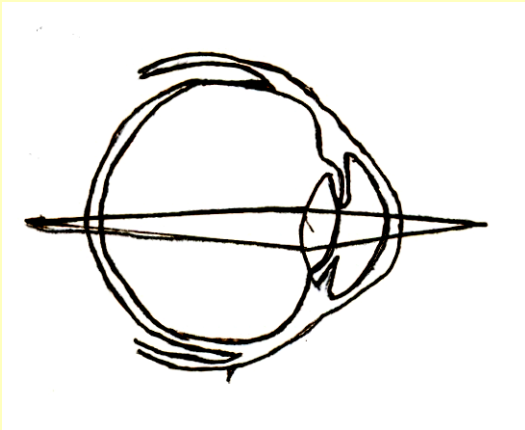
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37. The **diagram** below shows an electromagnet. What happens to a steel nail P placed close to it?



38. What do you call the part of a camera that does a similar job to that of the retina in the eye?

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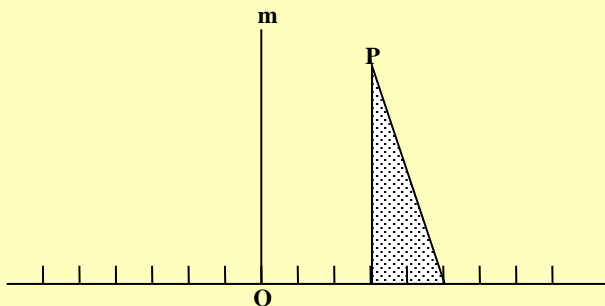


39. The **diagram** above shows light passing through the eye of a human being. What type of sense is used for collecting this eye defect?

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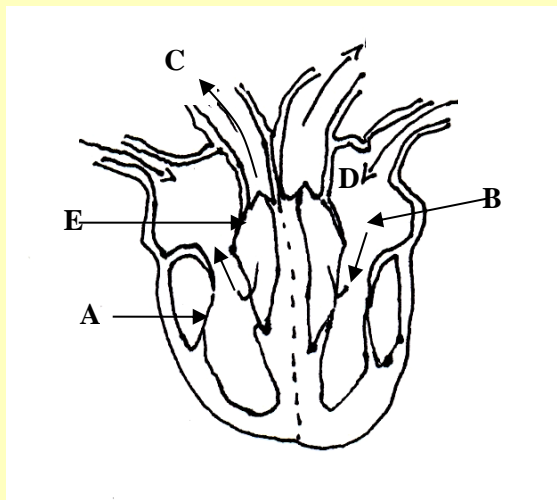
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40.



The **diagram** above shows an object placed in front of a mirror. Draw the Image of P.

41. The **diagram** is of a human heart.



(a). Name the parts labeled A and B.

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 .....  
 .....

(b). If the arrows show the flow of the blood in heart, Where does the blood vessel labeled C takes the blood?

.....  
 .....

(c). What type of blood vessel is labeled D?

.....

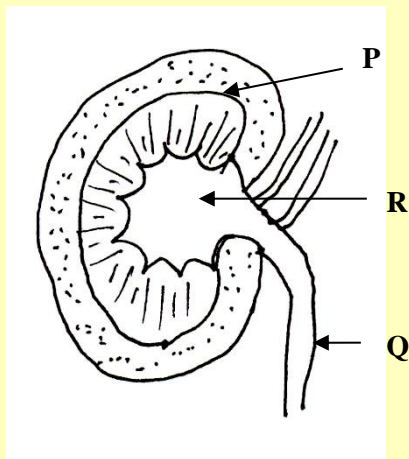
.....  
(d). What is the fiinction of the part labeled E?  
.....

.....  
42. (a) Name the part labeled **P.** and **R.**  
.....

.....  
(b) What is the name and function of the part  
labeled **Q**  
.....

.....  
(c) To which organ of the body does part labeled  
**Q** lead to?  
.....  
.....





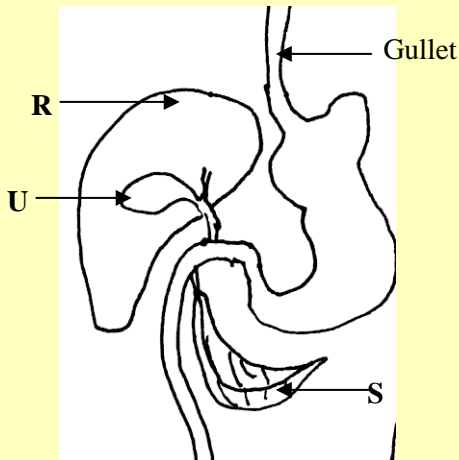
43. The table below shows the type of disease, its carrier and the way it is spread. Fill in the missing information

Diseases	Cause of the disease	How is it spread
Measles	.....	.....
Typhoid	.....	.....
Leprosy	Bacteria	.....

.....  
 .....

44. The **diagram** below shows part of a human

alimentary canal and some internal organs of the body.



(a) Name the organs labeled **R** and **S**

**R**.....  
 .....

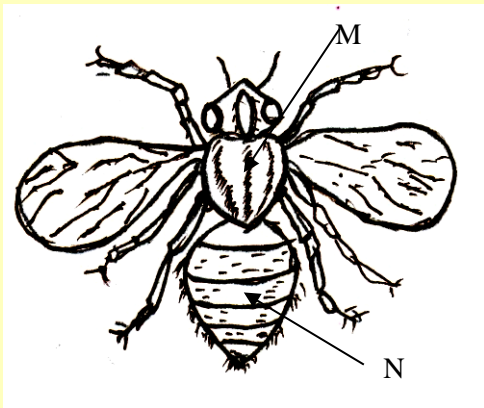
**S**.....  
 .....

(b) Give the name and function of the part labeled U.

Name.....

.....  
 Function  
 .....

.....  
 45. The **diagram** below is of a housefly



(a) Name the parts labeled M and N

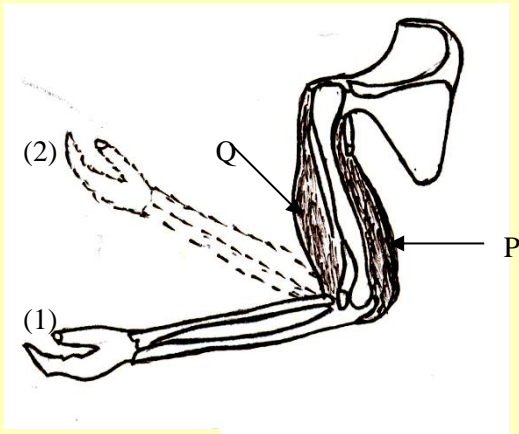
M.....

N.....

.....  
 (b) In what sort of place does a housefly lay its eggs?  
 .....

.....  
(c) At what stage in the life cycle of a housefly does it pupa  
.....

.....  
46. The **diagram** below shows the forelimbs of a human arm



(a) Give the names of the muscles labeled P and Q.  
.....

.....  
 (b) What happens to muscles P and Q as the hand is lifted from position 1 to position 2?  
 .....  
 .....

.....  
 47. (a) What food substance is obtained from bees?  
 .....  
 .....

(b) Of what use is this food substance of the human body?  
 .....  
 .....

.....  
 (c) To what group of animals do bees belong?  
 .....  
 .....

48. Match the words in group A with the correct words in group B and write the answer in the given space below

**A**

**B**

Pigs

Timber and paper

Cotton

Mutton and wool

Sausages and pork

Sheep

Feed and oil

Sunflower

Oil and Clothes

Farm yard manure

**A**

**B**

Pigs

.....

Cotton

.....

Sheep

.....

Sunflower

.....

49. (a) Which of the following substances are liquids at room temperature of  $24^{\circ}\text{C}$ ? Alcohol, mercury, cow ghee, kerosene, copper and ice.

(i)

.....

.....

(ii)

.....

.....

(iii)

.....

.....

(iv)

.....

.....  
 50. (a) Give two conditions under which a clean nail can rust

(i)

.....

.....

(ii)

.....

.....

(b) Give two ways by which one can protect garden tools from rusting

(i)

.....

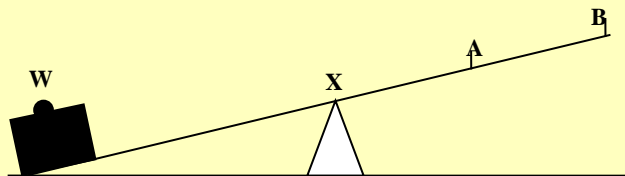
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(ii)

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.....

51. The **diagram** below shows a lever system used to lift a load W



(a) Name the point X?

.....  
 .....

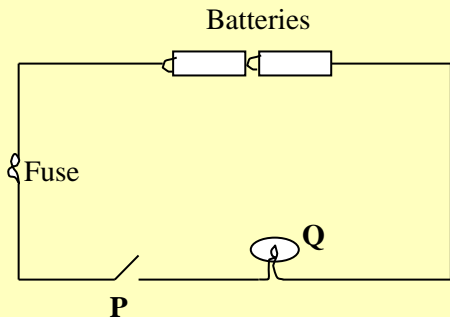
(b) Leo applies a force at point A and then at point B. At what point will he find it easier to lift the load

.....  
 .....

(c) Give reasons

.....  
 .....  
 .....  
 .....

52. The **diagram** below is of an electric circuit.



What happens to?



(a) Q when P is closed?

.....  
.....

(b) What name is given to P?

.....  
.....

(c) What is the use of A?

.....  
.....

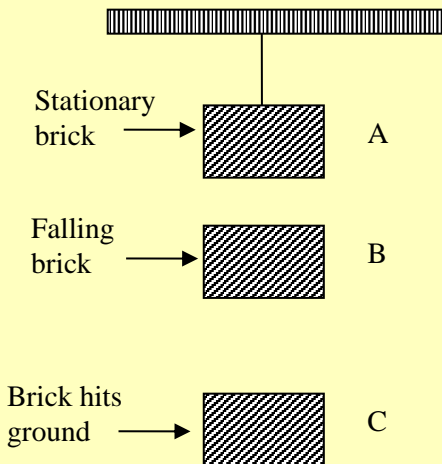
(i) Fuse?

.....  
.....

(ii) Battery?

.....  
.....

53. In the above **diagram**, the brick is stationed in position A. It is dropped so that it moves to position B and strikes the ground in position C.



(a) What forms of energy has the brick in position A and B?

(i) Position A

.....  
 .....

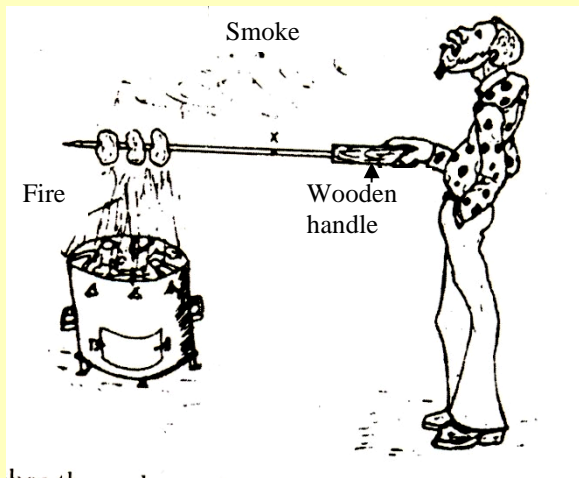
(ii) Position B

.....  
 .....

(b) Give one form of energy the brick is likely to release at position C?

.....  
 .....

54. The **diagram below** shows Okello roasting meat over a fire using an iron rod with a wooden handle



(a) When Okello touches the rod at point X the rod is hot. State the reason why the rod is hot at position X

.....  
.....

(b) Why does Okello not find the wooden handle hot?

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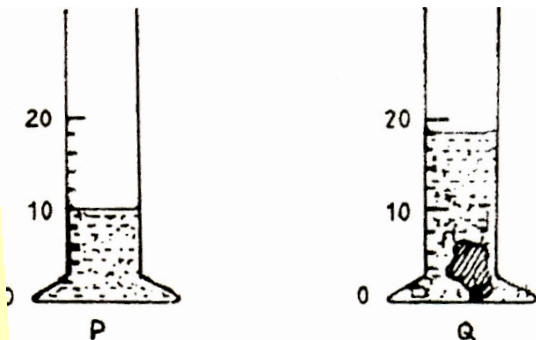
.....

(c) The smoke gets into Okello's. By what means is the smoke transferred from the fire into Okello's eyes?

.....

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55. In the above **diagram** some water was put in the measuring cylinder P and irregular objects of mass 20gms was put into the cylinder as shown in Q.



(a) What is the reading of the water level in Cylinder Q?

.....  
.....

(b) What is the volume of the irregular object?

.....  
.....

Calculate the density of the object.

.....  
.....