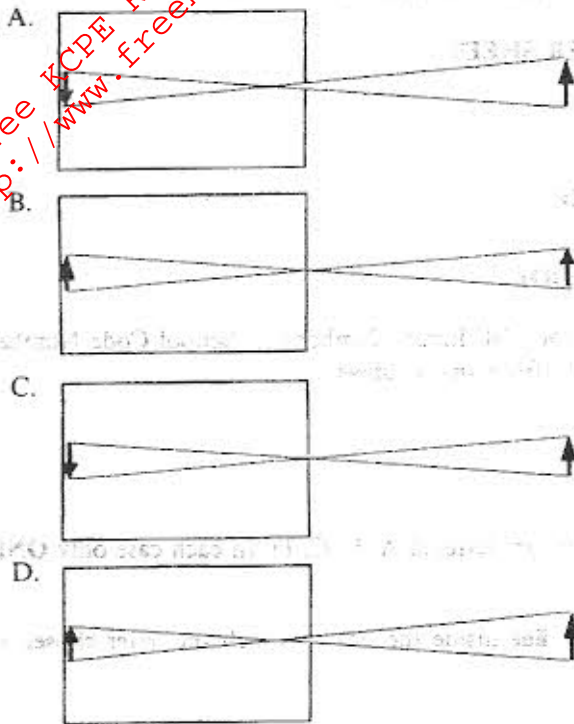


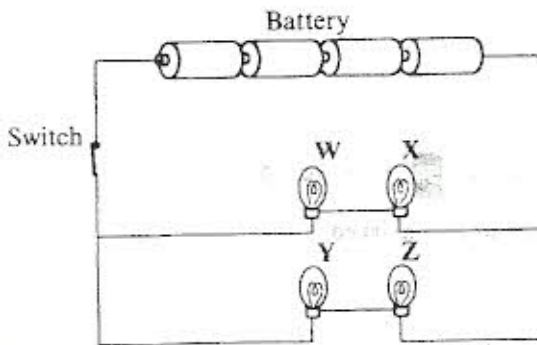
- Which one of the following **DOES NOT** have chemical energy?
 - Lemon.
 - Kerosene.
 - Charcoal.
 - Dynamo.

- The diagrams below were drawn by different groups of pupils to show how images are formed in a pinhole camera.



Which one is **CORRECTLY** drawn?

- The diagram below represents a circuit with four bulbs labelled W, X, Y and Z.



What would happen to bulbs X, Y and Z if W was removed?

- X, Y and Z would become dim.
- X, Y and Z would go off.
- X would go off, Y and Z would become brighter.
- X would become dim, Y and Z would become brighter.

- Which one of the following structures make up the female part of a flower?

- Anther, style, ovary.
- Stigma, filament, ovary.
- Anther, filament, ovary.
- Stigma, style, ovary.

- Which one of the following **DOES NOT** describe pollination?

- The transfer of pollen grains from the anther to the ovary of same flower.
- The transfer of pollen grains from the anther to the stigma of same flower.
- The transfer of pollen grains from one flower to another flower on the same plant.
- The transfer of pollen grains from one flower to another flower on a different plant of the same kind.

- Which one of the following statements is **true** about **ALL** insects? They

- undergo complete metamorphosis
- breathe through spiracles
- have proboscis
- have wings.

- Which one of the following plants stores its food in the root?

- Groundnuts.
- Cassava.
- Irish potato.
- Onion.

- Which one of the following is **TRUE** about reptiles and amphibians? They have

- scales
- gills
- varying body temperature
- external fertilisation.

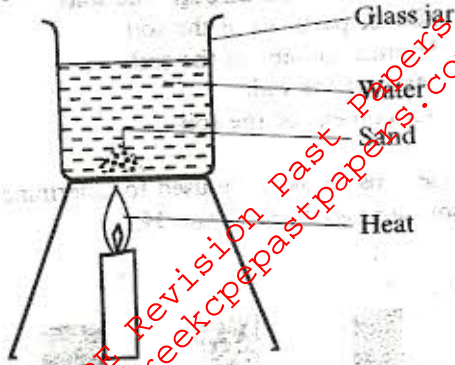
- Which one of the following is a chemical change?

- Melting of candle wax.
- Rusting of iron nails.
- Evaporating spirit.
- Water changing to ice.

- A bowl made of iron may float when placed in water because of its

- weight
- shape
- size
- density.

11. The diagram below represents a set up that can be used to demonstrate a certain process.



The process demonstrated is

- A. convection
- B. conduction
- C. diffusion
- D. radiation.

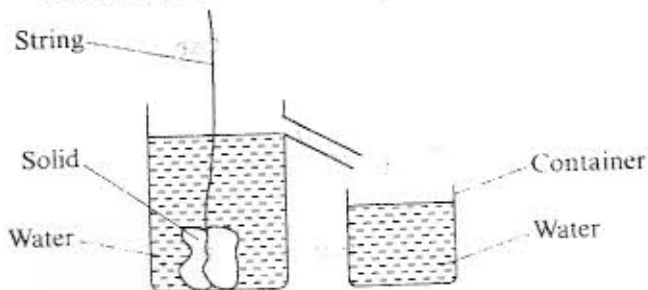
12. Standard Eight pupils were provided with liquids P, Q, R, S and T that were either neutral or acidic. They were asked to mix two liquids at a time and use hibiscus flower juice to test whether the mixture was acidic or not. The results obtained are shown in the table below.

Mixture	Change
P + Q	Red
P + R	No change
R + S	Red
R + T	No change
P + T	No change
Q + T	Red
Q + R	Red

Which two liquids were acidic?

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

13. A solid was immersed in water in an overflow can. The water that overflowed was collected in a container as shown in the diagram.



The amount of water collected in the container represents the solid's

- A. mass
- B. density
- C. weight
- D. volume.

14. Using a base and an indicator, the strength of an acid can be determined by
- A. the time it takes the indicator to change colour
 - B. the intensity of the colour change with the indicator
 - C. the number of drops required to change colour of the indicator
 - D. the colour of the indicator.

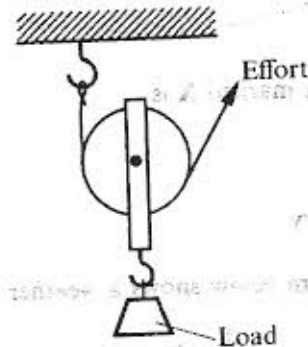
15. The diagram below shows the positions of fulcrum, effort and load in a lever.



Which one of the following pairs of levers has the same arrangement as that of the lever shown above?

- A. Pair of scissors and wheelbarrow.
- B. Pliers and nutcracker.
- C. Spade and fishing rod.
- D. Bottle opener and claw-hammer.

16. The diagram below represents a single movable pulley used to lift a load.



Which one of the following statements is TRUE about what happens when the effort moves up?

- A. The distance the load moves is equal to the distance effort moves.
- B. The effort applied is equal to the load.
- C. The distance the effort moves is twice the distance the load moves.
- D. Work done on the load is equal to work done by the effort.

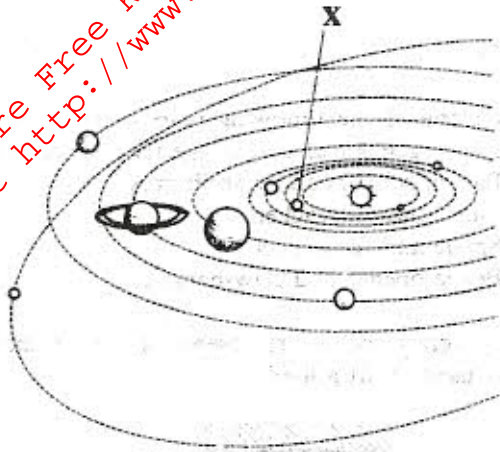
17. In which one of the following parts of a bicycle is friction NOT required?

- A. Seat.
- B. Axle.
- C. Handle.
- D. Pedal.

18. Which one of the following waste products DOES NOT require processing before recycling?
- Waste paper.
 - Scrap metal.
 - Dirty used water.
 - Rice husks.

19. Which one of the following is polluted MOST when a farmer uses pesticides excessively?
- Crops.
 - Air.
 - Soil.
 - Water.

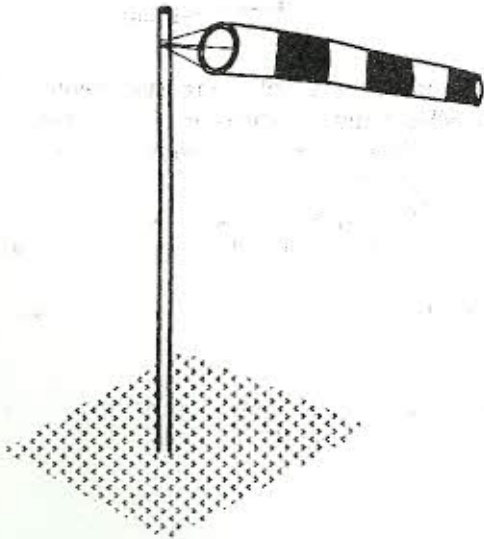
20. The diagram below represents the solar system.



The planet marked X is

- Mars
- Venus
- Earth
- Mercury

21. The diagram below shows a weather instrument.

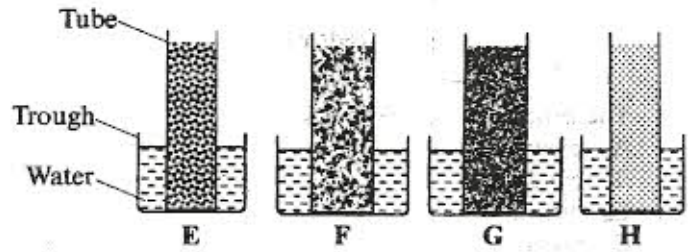


The instrument is used for measuring

- direction and strength of wind
- speed and direction of wind
- speed and pressure of wind
- pressure and strength of wind.

22. Which one of the following determines the rate at which water drains through the soil?
- Size of particles of the soil.
 - Humus content of the soil.
 - Mass of the soil.
 - Air content of the soil.

23. The set ups below were used to determine capillarity in soil samples E, F, G and H.



The correct conclusion cannot be drawn from the results of this experiment because

- soil types were different
- tubes were placed in different troughs
- troughs were of different sizes
- tubes were of different sizes.

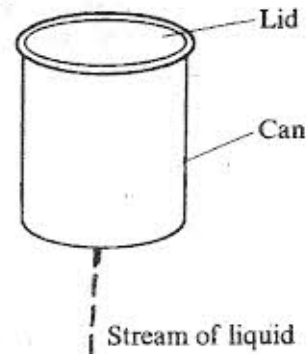
24. Which one of the following contains a weakened form of disease causing germs?

- Stimulant.
- Vaccine.
- Herbal extract.
- Depressant.

25. Which one of the following is NOT an effect of cigarette smoking?

- Heart attacks.
- Discoloured teeth.
- Air pollution.
- Restlessness.

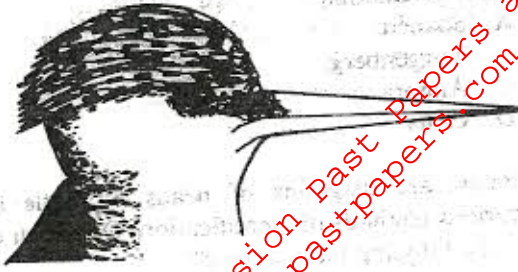
26. The diagram below shows how a liquid flows out a can with a hole at the bottom.



Which one of the following will make the liquid flow out smoothly?

- Making another hole at the top.
- Shaking the can.
- Increasing the size of the hole.
- Raising the container to higher level.

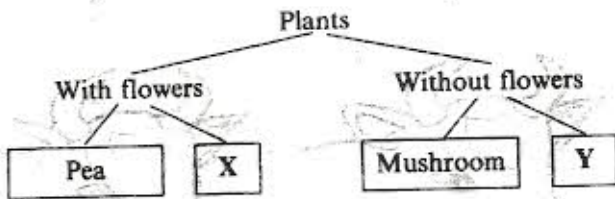
27. The diagram below shows the beak of a certain bird.



The bird most likely feeds on

- A. fish
- B. nectar
- C. insects
- D. seeds

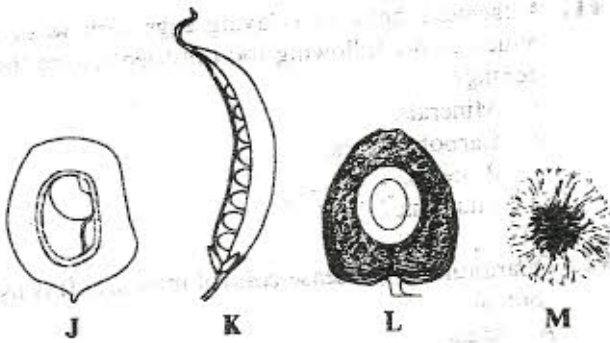
28. The chart below shows a simple classification of plants.



Which one of the following pairs represent X and Y?

- | X | Y |
|----------|----------|
| A. Fern | Algae. |
| B. Wheat | Cypress. |
| C. Bean | Maize. |
| D. Moss | Pawpaw. |

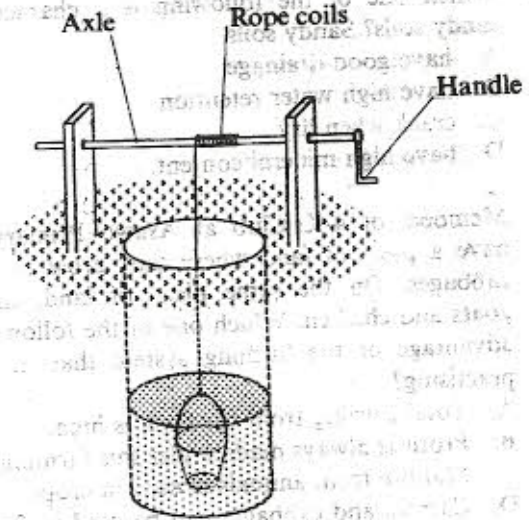
29. Diagrams J, K, L and M represent fruits and seeds.



Which one of the following shows the **CORRECT** method of their dispersal?

- | J | K | L | M |
|-----------|--------|--------|---------|
| A. Water | Animal | Animal | Wind. |
| B. Animal | Self | Water | Wind. |
| C. Self | Animal | Wind | Animal. |
| D. Water | Wind | Animal | Self. |

30. The diagram below represents a winch which can be used to raise water from a well.



Which one of the following should be done to reduce the number of turns made by the handle to raise water to the same height? **Increase the**

- A. diameter of the axle.
- B. width of the rope
- C. number of coils
- D. length of the handle.