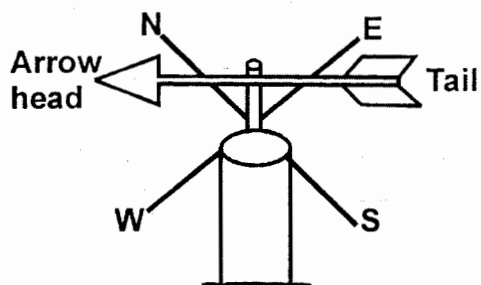


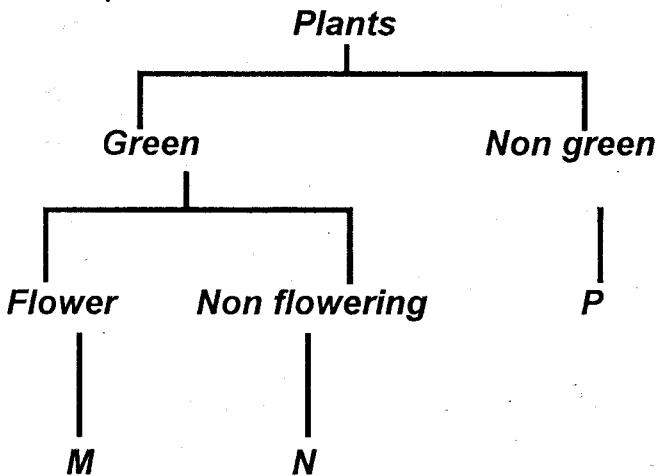
- When breathing in;
  - ribs moves upwards and inwards
  - the volume of the chest increases
  - pressure in the lungs decreases
  - the diaphragm become flat.
- An empty metallic ship floats on water because of
  - materials
  - weight
  - size
  - shape.
- The blood vessels that carries blood from the lungs to the heart and from the heart to the body respectively are
  - pulmonary vein and aorta
  - vena cava and aorta
  - pulmonary artery and aorta
  - aorta and vena cava.
- In the female reproductive system, a zygote is formed in the
  - womb
  - vagina
  - ovary
  - oviduct.
- Which one of the following vaccines is administered at birth?
  - BCG
  - Anti-measles
  - DPT
  - Anti-malaria
- Which one of the following animals does **not** breast feed its young ones?
  - Whale
  - Bat
  - Shark
  - Seal
- The windvane below was made by pupils using materials found in their school.



- Which one of the following statements is **incorrect** about the instrument above?
- It shows the wind direction.
  - The arrow head should be small than the tail.
  - It should be place away from buildings.

- Its arrowhead points the direction where the wind is blowing to.
- Which one of the following livestock parasites attacks the livestock without living on it?
    - Tick
    - Tsetse fly
    - Flea
    - Mite
  - Which type of teeth below is **incorrectly** matched with its function?
    - Canine - cutting
    - Incisors - biting
    - Premolar - chewing
    - Molar - grinding
  - What is cross pollination?
    - The transfer of pollen grains from anthers to stigma.
    - The transfer of pollen grains from the anthers of one flower to the stigma of another flower in the same plant.
    - The transfer of pollen grains from anther to stigma of different flowers of different kinds.
    - The transfer of pollen grains from the anthers of one flower to the stigma of another flower on different plants but of the same kind.
  - Which one of the following explains the function of white blood cells?
    - Combine with oxygen.
    - Fight the disease causing germs.
    - Carry digested food materials.
    - Clothing the blood.
  - Which animals provides mutton and dairy?
    - Sheep
    - Cows
    - Goats
    - Pigs
  - Children born to a smoking mother during pregnancy are **least** likely to be
    - underweight
    - having weak immunity
    - having poor mental growth
    - strong and healthy
  - Which one of the process following takes place immediately after sperms cell and ovum unite?
    - Fertilization
    - Implantation
    - Menstruation
    - Ovulation

15. The chart below shows the classification of plants.



Which one of the following **correctly** shows the plant represented by letters **M**, **N**, and **P**?

	<i>M</i>	<i>N</i>	<i>P</i>
A.	Maize	Ferns	Cypress
B.	Lichen	Algae	Mushroom
C.	Beans	Cactus	Puff balls
D.	Acacia	Cedar	Toadstool

16. Which one of the following shows major non-living components of environment?

- A. Animals, plants.
- B. Sound, light, heat.
- C. Soil, stones, plants.
- D. Soil, air, water.

17. The **most** effective method of controlling the spread of HIV/AIDS among the youth is by

- A. being faithful
- B. abstinence
- C. using condoms
- D. having only one partner.

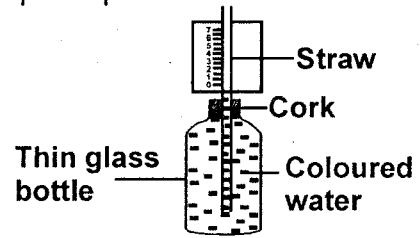
18. Miraa, tobacco and alcohol have one thing in common which one is it? They are

- A. narcotic
- B. prohibited in Kenya
- C. not illegal in Kenya
- D. depressants.

19. Which one of the following does **not** show how plants and animals depend on each other?

- A. Animals getting shade.
- B. Birds sheltering on trees.
- C. Pollination.
- D. Animals getting carbon dioxide from green plants.

20. The diagram below shows an improvised simple liquid thermometer.



Which one of the following would make it measure slight changes in temperature?

- A. Tightening the cork.
- B. Making the straw and small narrower.
- C. Raising the temperature.
- D. Adding more coloured water.

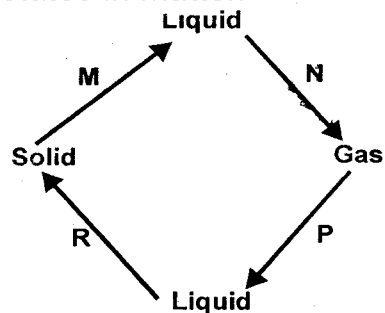
21. In a food chain, cabbages can be classified under

- A. decomposers
- B. primary consumers
- C. tertiary consumers
- D. producers.

22. When carrying out an experiment on drainage in soil, what does **not** need to be the same?

- A. Amount of water.
- B. Size of the funnel.
- C. Amount of the soils.
- D. The type of the soil.

23. The illustration below shows the changes of states in matter.



Which two processes require an increase in temperature?

- A. M and N
- B. P and R
- C. M and R
- D. N and P

24. Heat from the sun reaches the leaves of the plants through a process called

- A. Radiation
- B. Convection
- C. Conduction
- D. Induction.

25. Below are characteristics of matter.

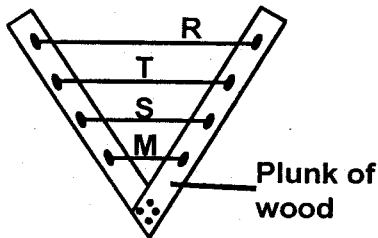
- (i) **Definite shape.**
- (ii) **Definite size.**
- (iii) **Definite mass.**

Which one of the above **best** describe paraffin?

- A. (i) and (ii)
- B. (i) and (iii)
- C. (ii) and (iii)
- D. None

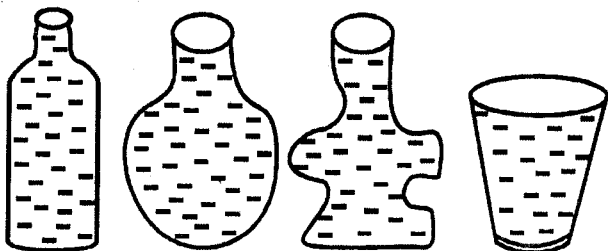
26. The second and seventh planets in the solar system respectively are;
- Venus and Uranus
  - Earth and Uranus.
  - Venus and Saturn.
  - Earth and Neptune.

27. Wires of the same material and thickness but of different lengths labelled R, T, S and M were fixed on a wooden plank as shown below.



Which wire produced the **highest** sound when plucked?

- |      |      |
|------|------|
| A. M | B. S |
| C. T | D. R |
28. Which one of the following is **not** a function of leaves of a green plant?
- |               |                   |
|---------------|-------------------|
| A. Breathing  | B. Transpiration  |
| C. Absorption | D. Photosynthesis |
29. Which one of the following is **not** a cereal crop?
- |          |            |
|----------|------------|
| A. Maize | B. Oats    |
| C. Beans | D. Sorghum |
30. Which crop pest below is **not correctly** matched with the part of the plant it attacks?
- |                 |                         |
|-----------------|-------------------------|
| A. Aphids       | - All kinds of grains   |
| B. Weaver birds | - Grains of cereals     |
| C. Stalk borers | - Inside of the stems   |
| D. Cut worms    | - Stem of young plants. |
31. Std 5 pupils transferred some amount of water in different containers as shown below.

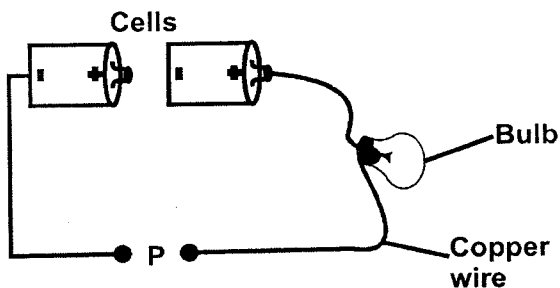


It is possible to conclude that liquids

- |                                       |
|---------------------------------------|
| A. occupies space.                    |
| B. have definite mass and shape.      |
| C. exerts pressure in all directions. |
| D. takes the shape of the containers. |

32. Which parts of a flower makes the male parts?
- |                          |
|--------------------------|
| A. Anthers and stigma.   |
| B. Stigma and style.     |
| C. Petal and ovules.     |
| D. Filament and anthers. |
33. Which one of the following weeds has thorns and green fruits which turn yellow when ripe?
- |                  |                |
|------------------|----------------|
| A. Oxalis        | B. Sodom apple |
| C. Wondering jew | D. Black jack  |
34. Which one of the following is **not** an effect of livestock diseases?
- |                          |
|--------------------------|
| A. Blood in the stool.   |
| B. Reduced yield.        |
| C. Low quality products. |
| D. Death.                |
35. Which small animals below is **not** classified in the same group as spider?
- |         |             |
|---------|-------------|
| A. Mite | B. Scorpion |
| C. Tick | D. Crab     |
36. Which one of the following is **not** a use of water in the industries?
- |                             |
|-----------------------------|
| A. Making fountains.        |
| B. Cleaning coffee berries. |
| C. Cooling machines.        |
| D. Irrigation.              |
37. When fertilizer is used excessively to improve the quality of the soil, it may lead to
- |                        |
|------------------------|
| A. water pollution     |
| B. soil erosion        |
| C. air pollution       |
| D. poor soil drainage. |
38. Sheet erosion can be controlled by
- |                           |
|---------------------------|
| A. building gabions.      |
| B. terracing              |
| C. planting cover crops   |
| D. making cut off drains. |
39. What is the importance of adding manure when preparing compost manure?
- |                                      |
|--------------------------------------|
| A. Introduce decomposers.            |
| B. Supply additional nutrients.      |
| C. Spread the rate of decomposition. |
| D. Aerate the compost.               |
40. Which one of the following methods of food preservation dehydrates food?
- |                           |
|---------------------------|
| A. Canning                |
| B. Freezing               |
| C. Use of low temperature |
| D. Drying.                |

41. The diagram below shows a simple electric circuit made by Std 7 pupils.

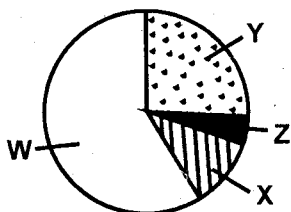


Which materials can be used in the gap marked P to make the bulb to light?

- A. Aluminium foil  
 B. Stick  
 C. Plastic ruler  
 D. Paper
42. During a class experiment, pupils mixed all the liquids below in one glass bottle.
- (i) *Water*  
 (ii) *Milk*  
 (iii) *Kerosene*  
 (iv) *Cooking oil*

How many layers were formed after mixing?

- A. 1  
 B. 2  
 C. 3  
 D. 4
43. Which one of the following is the **most** effective methods of separating a mixture of insoluble solid from liquid?
- A. Filtering  
 B. Winnowing  
 C. Sieving  
 D. Decantation
44. The chart below shows air composition.

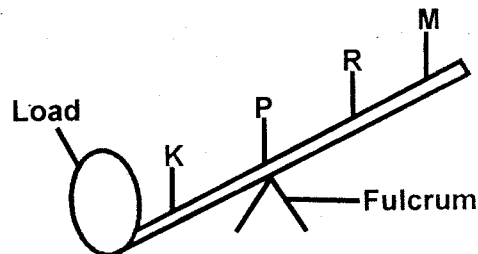


Which letter above shows the part of air used for rusting of iron nails?

- A. W  
 B. X  
 C. Z  
 D. Y
45. The soil that holds the **least** amount of water
- A. has the highest capillarity  
 B. makes the longest ribbons  
 C. has the largest air spaces  
 D. is sticky when wet.

46. The force that opposes movement is measured using
- A. spring balance  
 B. weight scale  
 C. beam balance  
 D. kilograms

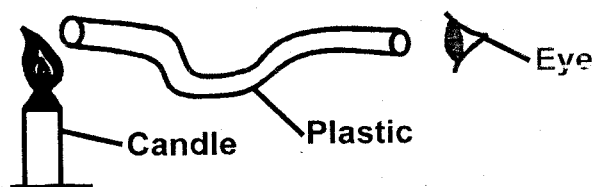
47. The diagram below shows a lever in use.



In order to make work easier, effort should be applied at the point marked

- A. K  
 B. P  
 C. R  
 D. M
48. Which one of the following is **not** a source of electricity?
- A. Dynamol  
 B. Dry cells.  
 C. Solar panel  
 D. Torch

49. The diagram below was used by Std 6 pupils to investigate a certain property of light.



Which property of light were they investigating?

- A. Light travel in all directions.  
 B. Reflection of light.  
 C. Light travels in a straight line.  
 D. Refraction of light.
50. What is convection?
- A. Transfer of heat through solids.  
 B. Transfer of heat through liquids and gases.  
 C. Transfer of heat through liquids only.  
 D. Transfer of heat through vacuum.