

PLE  
**P.7**  
PREP ONE



# SUREKEY

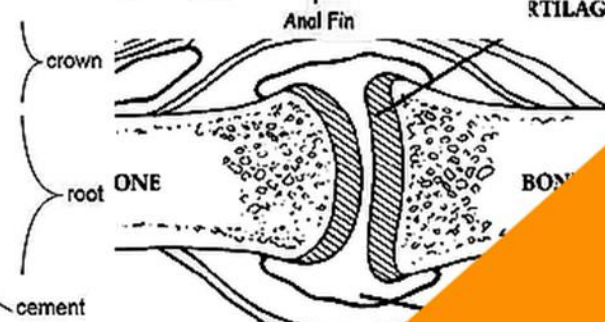
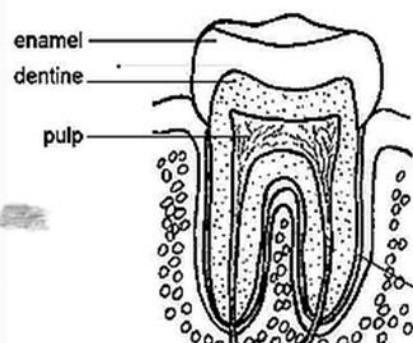
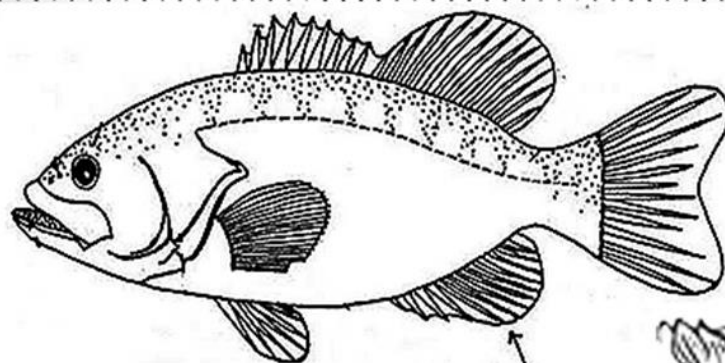
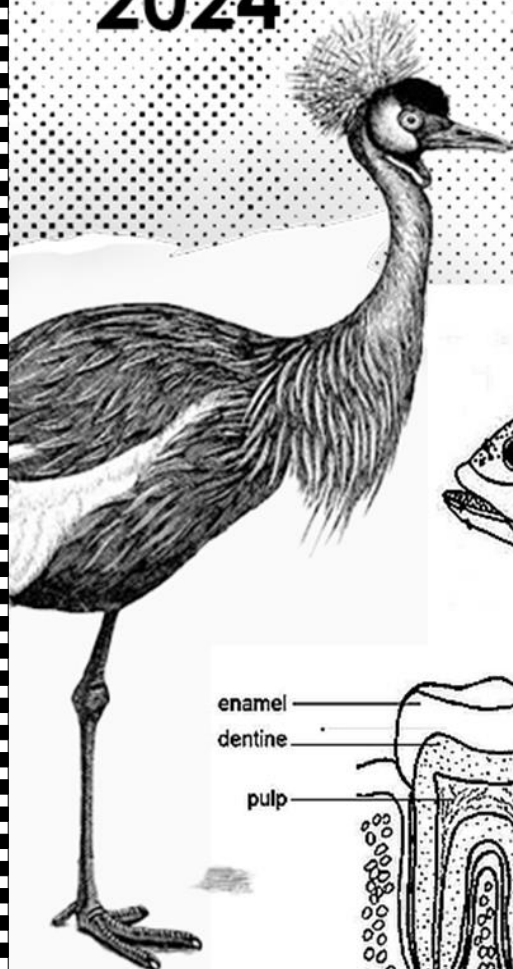
EXAMINATIONS BOARD

## SCIENCE

Official Marking Guide

**P.7 PLE - PREPARATION SET ONE**

**2024**



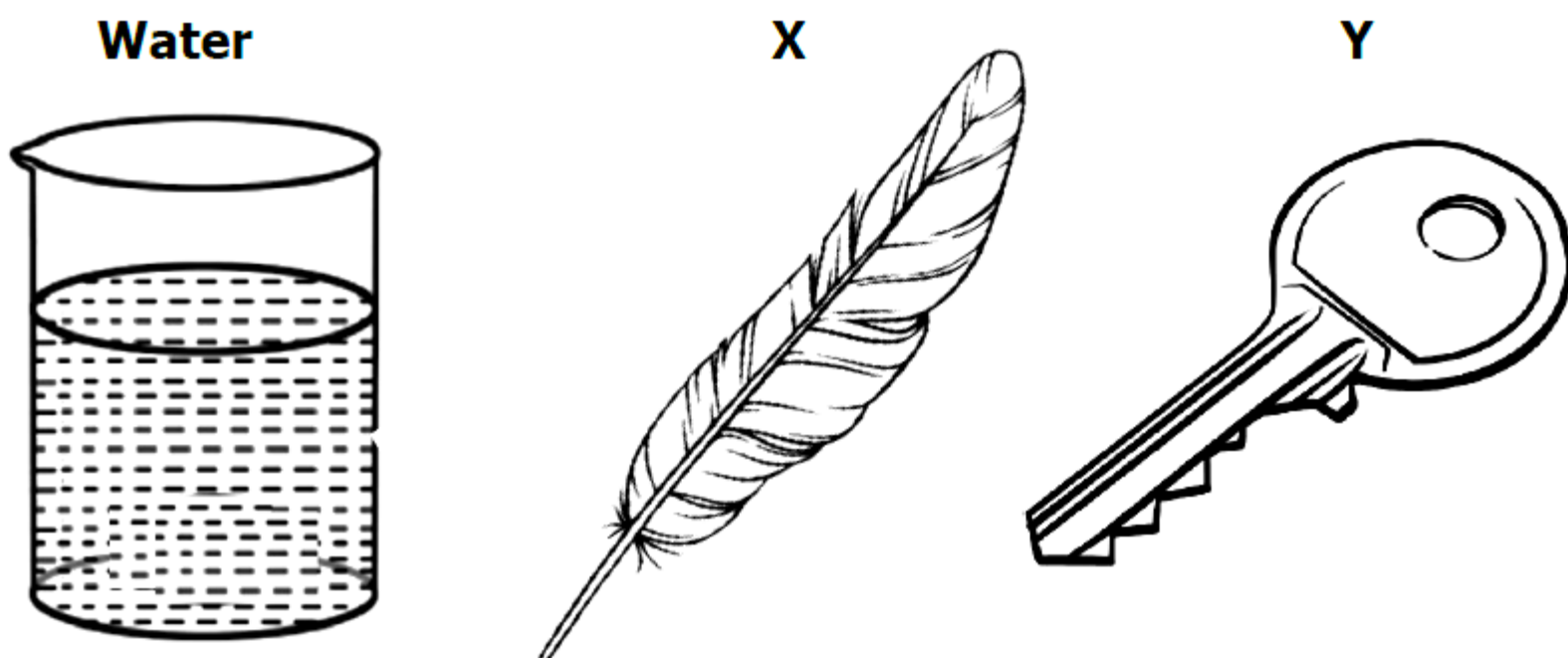
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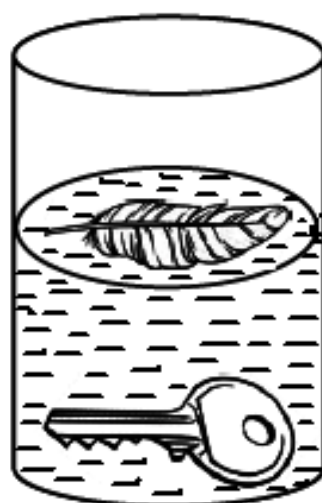
## **SECTION A: 40 MARKS**

1. Name the part that enables the tapeworm to suck digested food from the host.  
Segment/proglottid/strobila/tegument (reject suckers)
2. State any **one** activity that can be done to prevent honey bees from swarming.  
Planting flowers near the hive//setting up the hive in a cool and quiet place//keeping the hive under the shade//keeping the brood undisturbed//protecting honey bees from pest attack.
3. Give any **one** common sign of rickets in children.  
Ox-bow legs//knock-knee legs//brittle bones and teeth poor teeth formation.
4. Give any **one** way in which melting is important in the environment.  
It helps in the preparation of food using butter or ghee//it helps in the extraction of honey//it helps in obtaining water from ice//it helps in recycling of metals and plastics//it helps a fuse to work in an electric circuit//it helps in ice skating//it helps in forging metals.
5. How is a frog able to live comfortably both in water and on land?  
It has moist skin for breathing when in water and lungs for breathing when on land.
6. State any **one** way in which the spread of scabies can be controlled among the school children.  
Regular bathing//ironing clothes and bedding//regular washing of clothes//avoid sharing clothes, towels and combs//early treatment of scabies//isolating infected people.
7. Give any **one** role played by the school health committee in promoting health at school.  
Providing hand washing facilities//organizing school health parade//setting up school health clubs//providing dustbins at school//inviting external health workers at school.
8. Name the organ of the human body that enables a primary seven candidate to reason during a debate at school.  
The brain

The diagrams below show two objects **X** and **Y** with water. A primary five pupil wanted to show how they behave when dropped in water. Use them to answer questions **9** and **10**.

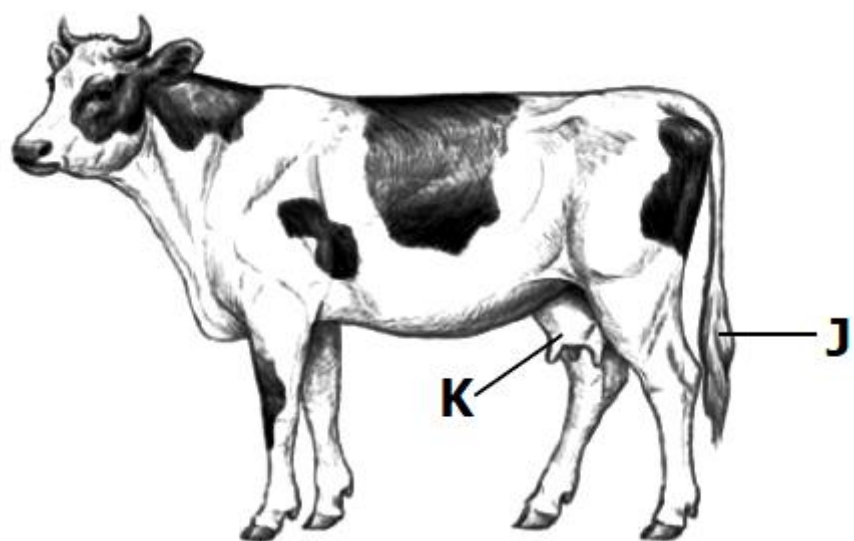


9. State the difference between object **X** and object **Y** in terms of their density. Object X is less dense than object Y.
10. Show the behaviour of objects marked **X** and **Y** by drawing in container of water in the space provided below.



11. Why is heat energy able to travel through the vacuum?  
Radiant heat does not require a medium of transmission.
12. How does excessive consumption of alcohol affect the stomach of an individual?  
It causes peptic ulcers.
13. State any **one** activity done by mothers to boost the immune system of their children.  
Taking children for immunization//feeding children on a balanced diet//breastfeeding babies
14. Why is it important to dry beans properly before keeping them in granaries?  
To prevent beans from rotting in the granary//to prevent beans from germinating during storage.
15. State any **one** way of conserving charcoal at home during cooking.  
Putting out burning charcoal after cooking//using charcoal-saving stoves during cooking//cooking much food at a time//soaking dry food like beans before cooking//using charcoal sparingly//using alternative sources of energy like gas cooker during cooking.
16. Which vector spreads filarial worms to the human eyes?  
Simulium fly/blackfly/simulid fly

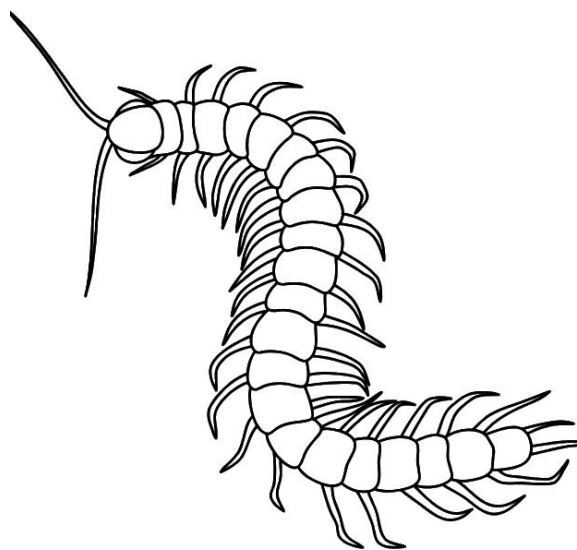
The diagram below shows external features of a cow. Use it to answer questions **17** and **18**.



17. Name the part of the cow marked **J**.  
Switch (*reject tail*)
18. How does a calf benefit from the part of the cow marked **K**?  
Part marked K provides milk to a calf/a calf gets milk from part marked K.

19. How is windy weather important in crop management?  
It helps in winnowing.
20. Give any **one** piece of advice you would give to your mother at home to protect your siblings from burns and scalds.  
Cooking from raised fire places//they should use insulators when lifting hot objects//keep flammable liquids away from fire places//put out all fire after use//avoid playing with hot objects and fire.
21. Name any **one** human body organ where involuntary muscles are found.  
Eyes//heart//kidney//intestines//diaphragm//stomach/rib cage
22. State any **one** factor that can lead to the destruction of magnets.  
Hammering the magnet//heating the magnet//keeping like poles together for a long time//leaving the magnet to rust.
23. State any **one** way primary sex characteristics that occurs in only female adolescents.  
Production of ova//thickening of uterus walls//menses begins

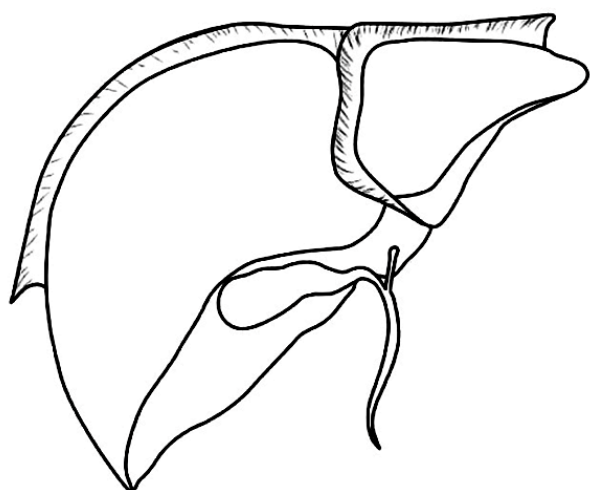
The diagram below shows an arthropod. Use it to answer questions **24** and **25**.



24. Identify the class of arthropods to which the animal above belongs.  
myriapods
25. How is the feeding of the above arthropod different from that of a millipede?  
The above arthropod feeds on insects and worms while a millipede feeds on plant materials.
26. State any **one** practice that a crop farmer can do to maintain moisture in the soil.  
Mulching the soil//Watering crops/irrigation
27. Give any **one** way in which local salt is important to people.  
For softening food during cooking//for preserving food//used as a pesticide//for curing stomach upsets.
28. Why are strings of the guitars made of metals?  
To produce sound of high pitch.
29. Mention any **one** effect of eating contaminated food to human health.  
Leads to body poisoning//leads to outbreak of diarrhoeal diseases
30. Apart from blood transfusion, state any **one** other way in which the volume of blood can be increased in the human body.  
Taking iron supplement tablets//feeding on food rich in iron//taking plenty of water and fruit juice.
31. Write down any **one** activity done by school children to promote physical exercise at school.  
Skipping the rope//dancing//jumping//swinging//swimming//running//playing Football, netball, volleyball....

32. In which way is reproduction in a cedar plant different from that in a fern plant?  
A cedar plant reproduces by means of seeds while a fern plant reproduces by means of spores.
33. State any **one** activity done by Young Farmers Club at school.  
Establishing woodlot//constructing aquarium//growing crops//rearing animals//organizing agricultural debates//setting up botanical gardens.
34. State any **one** way in which adolescent girls can care for their bodies during menstruation period.  
Regular bathing//changing sanitary pads//regular washing of knickers
35. Which agent of seed dispersal scatters coconut seeds?  
Water (reject water dispersal)

The diagram below shows the part found on the digestive system. Use it to answer questions **36** and **37**.



36. Name the part of the digestive system shown above.  
The liver/the human liver
37. How is the above part of the digestive system useful during digestion?  
It produces bile that emulsifies fats.
38. State any **one** reason why pregnant women are not advised to smoke cigarette.  
Smoking causes birth of underweight babies//smoking causes still birth//smoking causes miscarriage//smoking causes premature birth.
39. Give **one** reason why some people wear braces on their teeth.  
To align teeth. /to put teeth in their right position.
40. Give any **one** activity carried out at home using filtration method of separating mixtures.  
Preparing local salt from plant ash//separating lemon/passion fruit from seeds//separating tea leaves from tea//removing solid impurities from water.

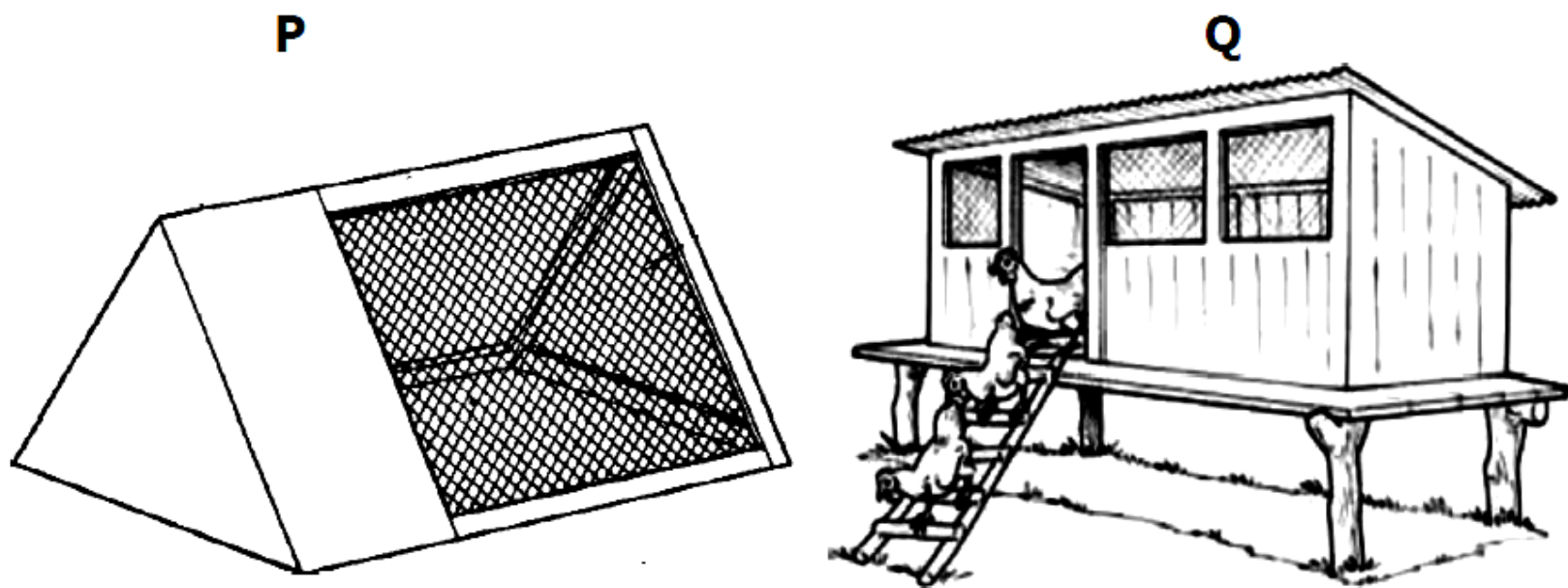


## **SECTION B: 60 MARKS**

41. Name the group of annual crops where you would put;

- (a) Wheat: cereal crops
- (b) Cowpeas: legumes/leguminous crops
- (c) Turnips: root tuber crops/root crops
- (d) Onions: vegetable crops

42. The diagrams below show systems of keeping poultry. Study and use them to answer the questions that follow.



(a) Name the systems of keeping poultry marked **P** and **Q**.

- (i) **P** fold system/pen system
- (ii) **Q** deep litter system

(b) State any **one** reason why you would not advice poultry farmers to use the system of keeping poultry marked **P**.  
Birds lack physical exercises//there is need to replaces old pens often//few birds are kept//there is easy spread of diseases among birds in case of outbreak.

(c) Identify the system from the diagrams above that is suitable for commercial purpose.  
System Q (reject deep litter system)

43. (a) Give the meaning of the following terms:

- (i) Malnutrition : a condition where there is an imbalance in the intake of nutrients leading to health conditions.
- (ii) Balanced diet : a diet that contains all food values in their right proportions.

(b) Write down any **two** modern methods of preserving food.  
Refrigeration//irradiation//use of preservatives//sterilization//pasteurization//freezing//brining (reject tinning/canning)

44. You are provided with the following materials:

**water, dry soil, hard paper**

Write down **four** steps you will take to show how splash erosion takes place.

- (i) Collect soil from dry bare land and place it on a flat hard paper.
- (ii) Put water in a container and pour it slowly from a high level onto soil.
- (iii) Observe soil as water pours down on it.
- (iv) Falling water acts as raindrops which splashes or scatters soil.

45. (a) Name the body organ in the human body that;

- (i) Purifies blood                      kidney
- (ii) Adds oxygen in blood              lungs

(b) State any **two** characteristics of arteries.  
They have thick walls//they have narrow lumen//they have no valves//they carry blood away from the heart//they transport oxygenated blood except pulmonary artery

46. (a) Give any **one** example of carnivorous mammals.  
Leopard//tiger//lion//cheetah//jaguar//dog//cat...

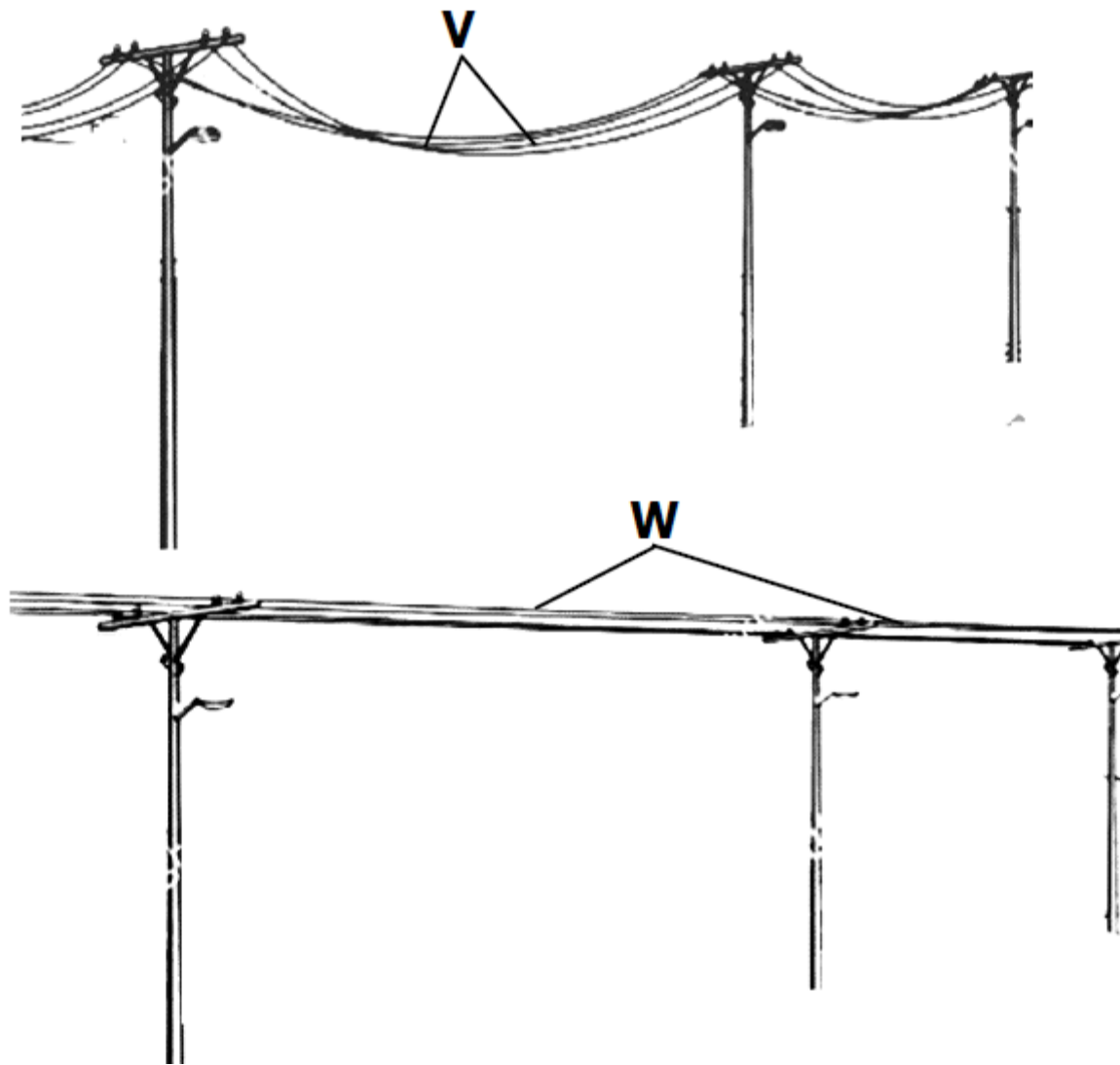
(b) Which feature enables carnivorous mammals to attack their prey without being noticed?  
Soft pads on their feet.

(c) State any **two** characteristics of carnivorous mammals.  
Have well developed canine teeth//have strong sharp claws//have very keen eyesight//have high speed//have soft pads on their feet//have a strong sense of smell.

47. (a) State any **two** signs that you use to identify the patient suffering from cholera.  
Vomiting//severe diarrhea//dehydration//leg cramps//rapid heartbeat//low blood pressure.

(b) Give any **two** measures that can be put in place in order to control the outbreak of cholera in the community.  
Proper disposal of human wastes//proper disposal of rubbish//spraying insecticides to kill houseflies and cockroaches//encouraging people to drink boiled water.

48. The diagrams below show the appearance of electric cables in different types of weather. Study and use them to answer the questions that follow.



- (a) In which type of weather do electric cables appear as shown in diagram **V**?  
sunny weather/hot day
- (b) Why do electric cables appear as shown in the diagram marked **W**?  
Due to contraction.
- (c) State the advantage of leaving electric cables to appear as shown in **V** when fixing them on electric poles.  
It prevents electric wires from breaking due to contraction during cold days.
- (d) Mention any **one** effect of heat on matter shown by the electric cables shown above.  
Matter expands when heated //matter contracts when cooled.

49. The table below shows management practices in sheep in part **A** and their importance in part **B**.

<b>A: Practice</b>	<b>B: Importance</b>
(i) Shearing	- prevents end parasites.
(ii) Docking	- enables sheep to reproduce.
(iii) Lambing	- eases mating in sheep.
(iv) Deworming	- enables a sheep farmer to get wool.



Match correctly the sheep management practices with their importance in the spaces provided below.

- (i) Shearing : .....get wool.
- (ii) Docking : .....mating in sheep.
- (iii) Lambing : .....reproduce.
- (iv) Deworming : .....endo parasites.

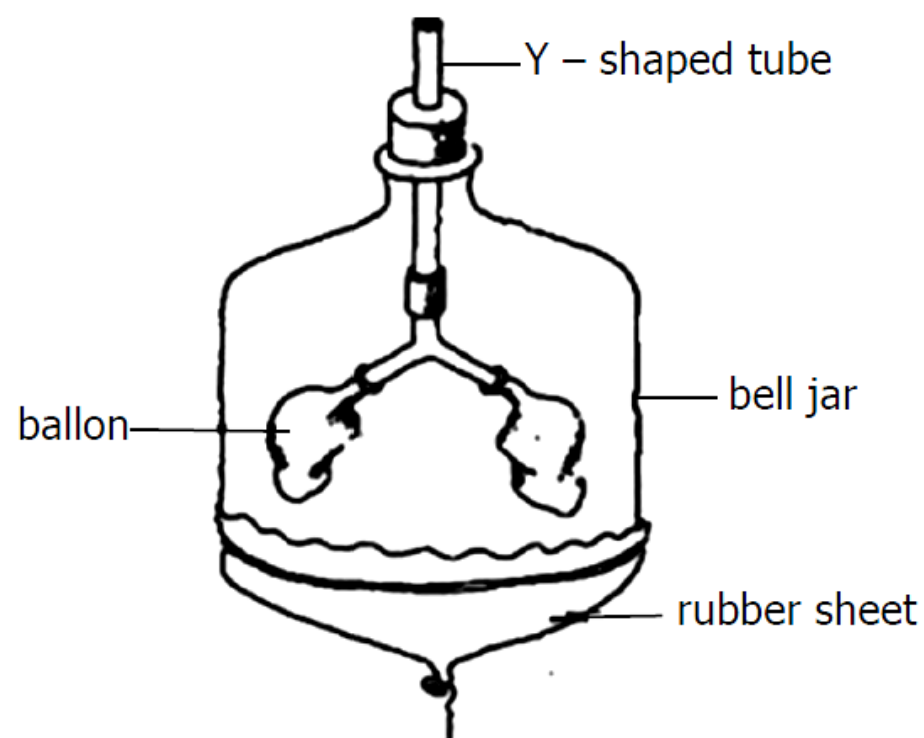
50. (a) Give the role of each of the following on a maize grain during germination;

- (i) Cotyledon it absorbs and supplies food to the embryo.
- (ii) Plumule it develops into the shoot system.

(b) State any **two** factors that can make maize grains fail to germinate even when all conditions are present.

Rotten seeds//damaged seeds//immature seeds//overstayed seeds//poorly dried seeds...

51. The diagram below shows a model of a certain body system. Study it and answer the questions that follow.



(a) Which body system is shown by the model above?  
Respiratory system

(b) What does each of the following materials on the model represent on the body system above?

- (i) Y - shape tube trachea//windpipe/bronchus
- (ii) Balloons lungs

(c) State what happens to the balloons when the rubber sheet is pulled downwards.

The balloons increase in size (volume)

52. (a) Write down any **two** kinds of food that a mother can give a baby during weaning period.  
Mashed matoke//mashed rice//porridge//mashed potatoes//  
mashed cassava//mashed posho
- (b) Give any **two** reasons why mothers are encouraged to breastfeed their children for at least two years.  
To strengthen the immunity of the baby//it delays the next pregnancy//breast milk contains all food values//it improves the health of the mother
53. (a) Which method is used to obtain petroleum products?  
Fractional distillation/fractionation
- (b) Apart from petroleum, list down any **two** other examples of fossil fuels.  
Natural gas//coal//peat
- (c) State any **one** way in which fossil fuels can be used as energy resources.  
They are used to produce thermal energy//paraffin from crude oil is burnt to produce heat and light//natural gas is used as fuel in gas cookers//coal is used in blast furnace to melt iron.
54. The diagram below shows two boys demonstrating a medium of sound transmission using a string telephone. Study and use it to answer the questions that follow.



- (a) Which medium of sound transmission is being demonstrated by the boys above?  
solids
- (b) How is the boy at point **D** able to hear sound from the boy at point **C**?  
Through sound waves.
- (c) Why did the boys use the string to connect the two tins?  
To transmit sound waves from the boy's mouth to the tin placed on the ear.



- (d) What is the purpose of the experiment demonstrated by the boys above?  
Sound travels through solids.

55. (a) Write down any **two** factors to consider when sorting clothes for washing.  
Nature of the clothes//intensity of the dirt//colour of the clothes
- (b) Give any **one** reason why people sort clothes before washing them.  
It prevents the fading of clothes//it prevents clothes from staining others.
- (c) Apart from sorting, name any **one** other step taken when cleaning clothes at home.  
Soaking//washing//rinsing//wringing//drying//ironing

**END**



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