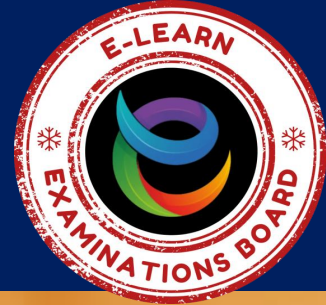
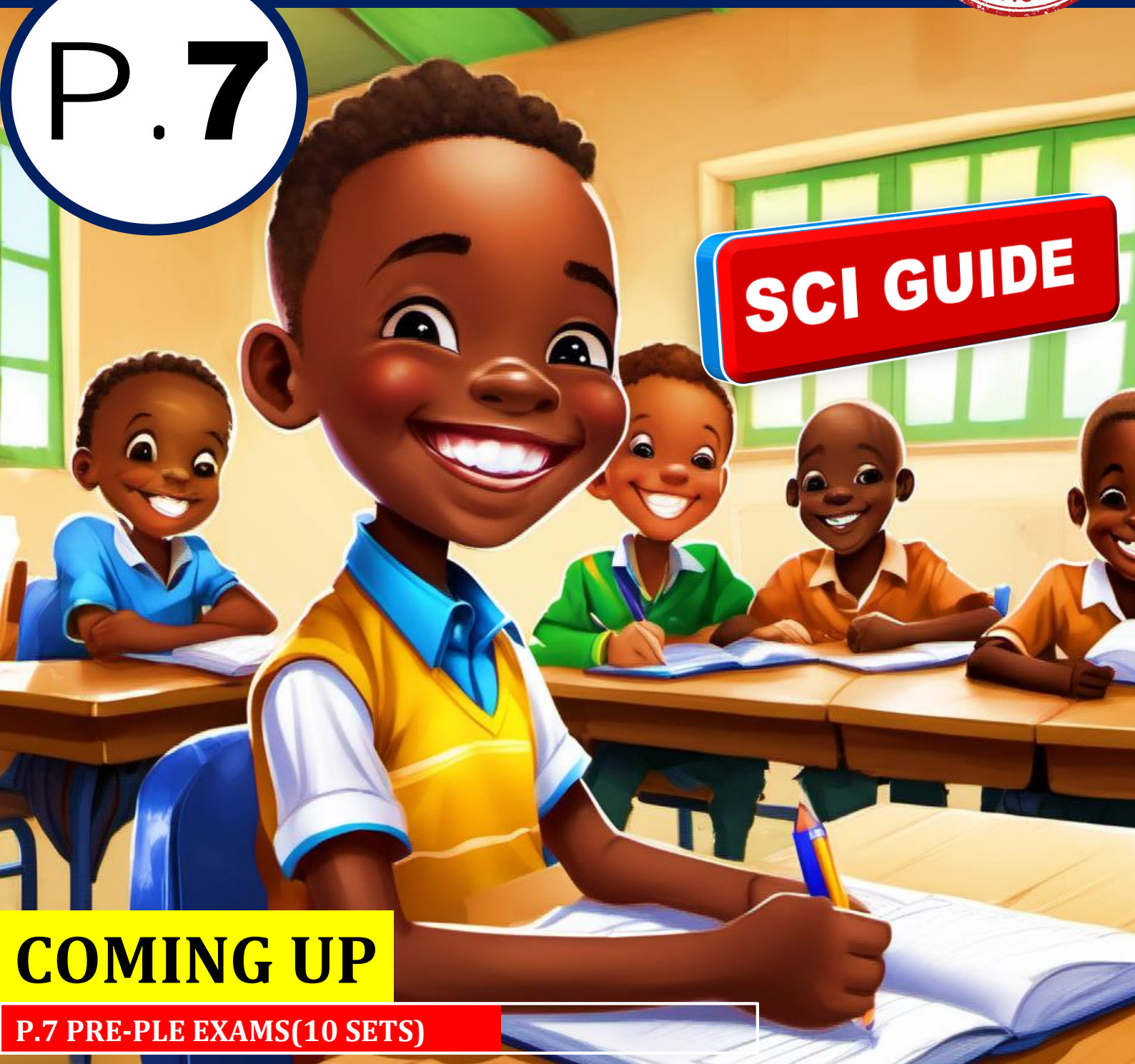


# MOCK 2024



P.7

**SCI GUIDE**



**COMING UP**

**P.7 PRE-PLE EXAMS(10 SETS)**

**NAME:** .....

**SCHOOL:** .....



**0780-438054**



**0708-43805**

## SECTION A

1. Name **one** domestic animal kept for protection in a home.  
✓ **Dog//cat**
2. Write **one** way how insects benefit from ecdysis  
✓ **Insects increase in body size.**  
✓ **Insects grow**
3. Mention **one** effect of sex deviations to an individual in the community  
✓ **Leads to shame in the society**  
✓ **It increases the risks of getting HIV/AIDS**  
✓ **Masturbation leads to prostate enlargement**
4. Write **one** method of preparing food.  
✓ **Deep frying//steaming //roasting//boiling**
5. State **one** way how living organisms like earthworms aerate the soil  
✓ **By creating air passage in the soil**

Study the diagram below and answer questions **6** and **7**



6. Name the immunisable childhood disease the boy is most likely suffering from.  
✓ **Polio(Poliomyelitis)**
7. How is the vaccine for the above disease administered in babies?  
✓ **Orally / drop in the mouth**

8. State the airborne disease which affects the skeletal system.

✓ **Tuberculosis of the spine/spinal Tuberculosis**

✓ **ACC**

9. Write the type of tooth with a chisel shape.

✓ **Incisor tooth**

10. State the main reason why cassava is not propagated using its seeds.

✓ **Cassava seeds have low viability**

✓ **Cassava seeds may not germinate**

11. Besides the orbit, write **one** other part of the human skeleton which protects the eye balls.

✓ **Skull**

12. Which method of making alcohol involves zymase enzyme?

✓ **Fermentation method**

13. State the type of bacteria which can multiply in the absence of the gas which supports burning.

✓ **Anaerobic bacteria**

Use the diagram below to answer question **14**.



14. Why is the above type of incubation not common in modern poultry houses?

✓ **A few eggs are hatched//eggs may fail to hatch incase the mother dies.**

15. Write **one** way how crop farmers can destroy the lifecycle of crop pest in the garden.

✓ **By practising crop rotation**

16. Name the part of a joint protected by the sesamoid bones.

✓ **Tendon**

17. State the form of energy produced when molecules move rapidly to and fro in a substance.

✓ **Sound energy**

18. Write **one** reason why ash is added on the compost heap of manure.

✓ **To add mineral salts in manure**

19. Mention **one** example of annelids.

✓ **Earth worms/Bristle worm/Leeches**

20. Give **one** item used to stop petrol fire.

✓ **Sand/Dust/fire extinguishers (reject water)**

21. Write **one** role played by VHT in the community.

✓ **To promote sanitation in the village**

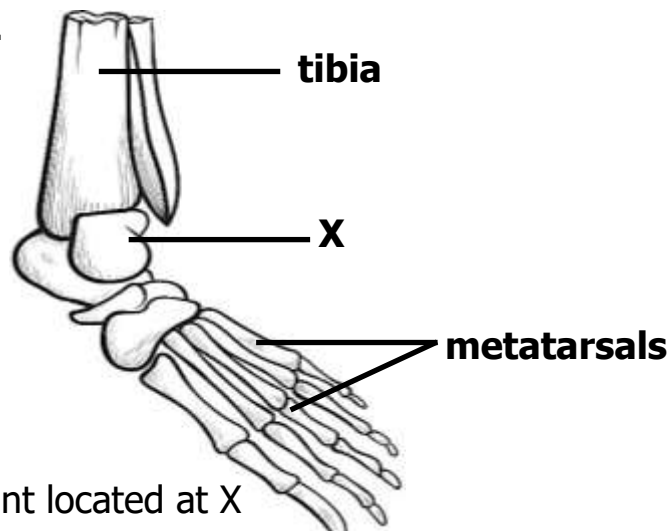
✓ **To sensitize about dangers of poor sanitation**

✓ **To promote immunization programs**

22. State the group of arthropods with numerous legs and body segments.

✓ **Myriapods**

The diagram below shows bones in a foot of a human being. Use it to answer questions that follow.



23. State the movable joint located at X

✓ **Gliding joint**

24. Identify any other **one** type of movable joints.

✓ **Ball and socket joint//Hinge joint//Pivot joint**

25. How do iron keepers prevent magnets from losing their magnetism?

✓ **Iron keepers complete the magnetic cycle.**

26. Give the importance of hooks to a blackjack during dispersal.

✓ **Hooks are used for attachment on the body of a disperser.**

27. Write any **one** effect of teenage pregnancy to a school going child.

✓ **Teenage pregnancy leads to school dropout**

✓ **Teenage pregnancy leads to high infant mortality rate**

28. Give **one** method of applying fertilizers in the garden.

✓ **Placement/Spraying/Broadcasting/Top dressing**

29. Write the main reason why breast milk is called complete food for babies.

✓ **Breast milk contains all food values**

30. What scientific name is given to the liquid Conductor of electricity in a wet cell?

✓ **Electrolyte**

31. Give **one** advantage of using third class lever machines.

✓ **The effort moves through a shorter distance**

32. To which class of levers does the above machine belong?

✓ **First class levers**

33. Write any **one** cause of poultry vices.

✓ **Poor feeding// over crowding birds//lack of calcium in poultry feeds**

✓ **Failure to collect eggs in time//hunger**

34. Which vaccine is given to babies to protect them against whooping cough?

✓ **DPT – Hep B + HiB Vaccine**

35. State **one** lifestyle which can lead to partial deafness.

✓ **Listening to very loud music**

✓ **Leaving too much ear wax to accumulate in the ear**

36. Give a reason why some people put on white clothes during sunny weather.

✓ **To reflect sunlight.**

37. State the disorder of the skin caused by absence of melanin pigment in the skin.

✓ **Albinism**

38. Write the method used to produce high concentrated alcohol.

✓ **Distillation method**

39. How can hard water be made soft?

✓ **By boiling**

40. Name the special organs used by spiders to spin silk.

✓ **Spinnerets**

### **SECTION B. (60MARKS)**

41. (a) Name the main respiratory organs in the human body.

✓ **Lungs**

(b) How are the following important in the respiratory system?

(i) Alveoli

✓ **It is where gaseous exchange occurs**

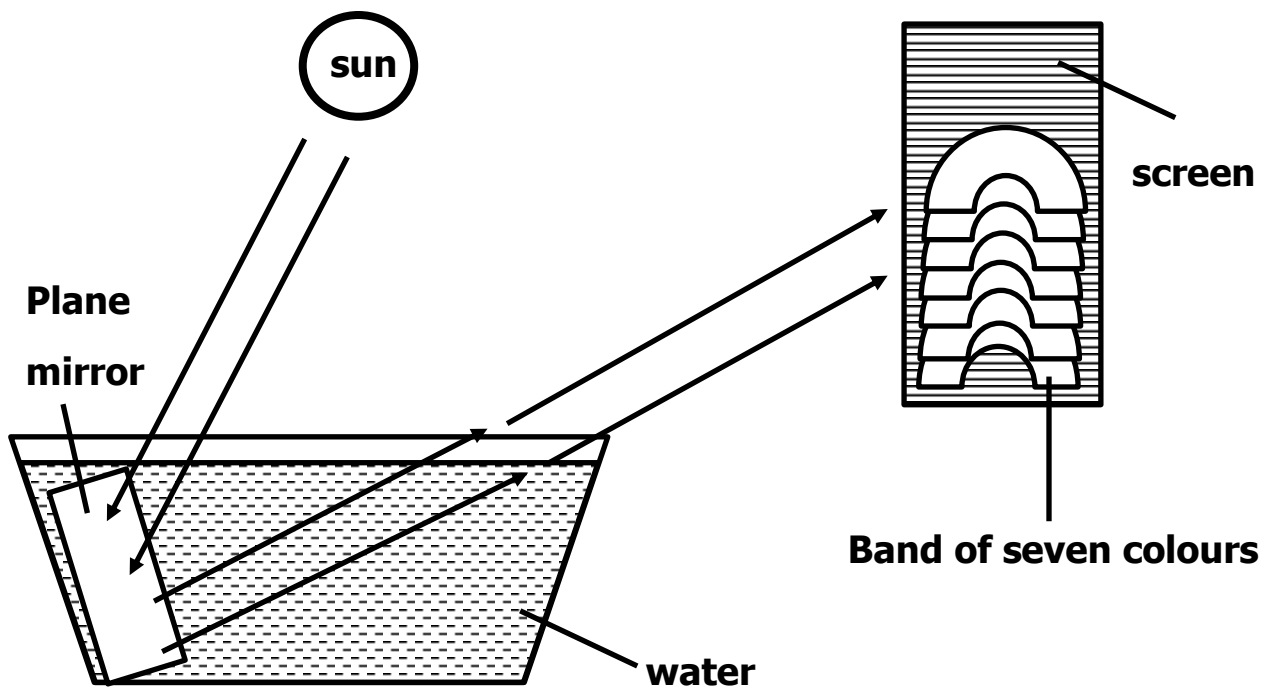
(ii) Trachea

✓ **It is a passage of air to the lungs**

(c) How does the epiglottis prevent choking?

✓ **By closing the trachea during swallowing**

42. The diagram below shows an experiment which was set up by P-7 candidates in Agururu primary school. Study it carefully and answer the questions about it correctly.



(a) What was the above experiment about?

✓ **Dispersion of light**

(b) Give the role of the following in the above experiment:

i) Mirror

✓ **To reflect light rays to the screen**

ii) Water

✓ **To split white light into a spectrum**

(c) What scientific name is given to the band of seven colours formed on the screen in the diagram above.

✓ **Spectrum**

43. (a) State the physical process which leads to the formation of clouds.

✓ **Condensation**

(b) How are the following important in a water cycle?

i) Sun

✓ **Heats water bodies to form steam**

ii) Trees

- ✓ **Trees help in transpiration//They increase the amount of humidity in the air through transpiration.**

(c) How does deforestation affect hydroelectricity?

- ✓ **Deforestation cause reduction of trees which help in rain formation hence reducing the volume of water in the reservoir**

44. (a) How can you separate these mixtures:-

i) Seeds from fruit juice.

- ✓ **Through filtration**

ii) flour and iron fillings

- ✓ **Using a magnet**

(b) Write **one** mixture which can be separated using a separating funnel.

- ✓ **Cooking oil and water**

- ✓ **Paraffin and water**

- ✓ **Petrol and water**

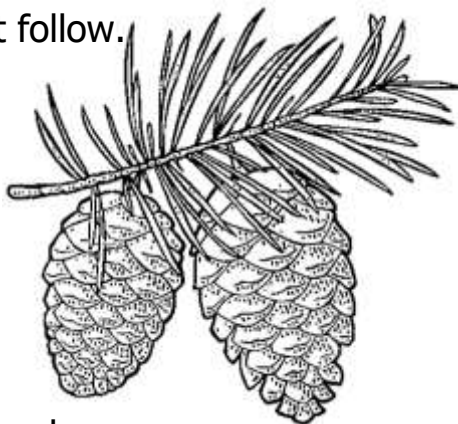
(c) Mention **one** principle under which mixtures are separated.

- ✓ **Substances have different boiling points**

- ✓ **Different substances have different densities**

- ✓ **Magnetic substances are attracted by the magnet**

45. The diagram below shows a part of a certain group of non-flowering plants. Study it and answer questions that follow.



a) Name the structure drawn above.

- ✓ **Cone**



b) State the group of non-flowering plants with such structures on them.

✓ **Coniferous plants**

c) How do plants with such structures reproduce?

✓ **By means of seeds**

d) Write **one** plant which belongs to the group of plant named in (b) above

✓ **Pine/Cypress/Podo/Cedar**

46. (a) The human body is made up of various systems. Write down the body system concerned with the following

i) Human **bones**

✓ **Skeletal muscular system**

ii) Food

✓ **Digestive system**

iii) Blood

**Circulatory system**

(b) Name the body organ responsible for balancing the water in the body

✓ **Kidney**

47. The diagram below shows **three** metallic bells of different sizes study it and answer the questions that follow. *Check question paper for the diagrams*

a) Which bell will produce:

i) Sound of lowest pitch.

✓ **Bell Z**

ii) Sound of highest pitch.

✓ **Bell X**

b) Mention **one** type of notation method Storing sound.

✓ **Staff notation**

✓ **Solfa notation**

c) Besides keeping the trachea open, how are rings of cartilage important to birds?

✓ **They vibrate to produce sound**

48. (a) How do the following parts of a machine reduce friction:-

i) ball bearings

✓ **By keeping moving parts of a machine separate**

ii) rollers

✓ **By reducing the area of contact between moving parts**

(b) Write **one** way how friction is a nuisance force

✓ **Friction causes unnecessary noise**

✓ **Produces unnecessary heat**

✓ **Causes wear and tear of machines**

(c) State **one** force which lowers the efficiency of a machine.

✓ **Friction/Frictional force**

49. (a) Give the meaning of the term food security.

✓ **Food security is when the family or community has enough food for eating all year round.**

(b) Mention **two** causes of famine family.

✓ **Natural calamities e.g. floods, drought, earthquakes**

✓ **Soil exhaustion**

✓ **Crop pests and disease attack**

(c) How does food insecurity lead to deficiency diseases?

✓ **Food insecurity leads to malnutrition.**

50. (a) State the processes which take place in the following parts of the kidney

(i) Cortex

✓ **Filtration**

(ii) Medulla

✓ **Reabsorption of useful substances**

(b) Name the blood vessel which supplies oxygenated blood to the kidney.

✓ **Renal artery**

(c) In which part of the kidneys are the nephrons found?

✓ **Cortex**

51. Match the following organs to the diseases

Organs

Eyes

Kidney

Liver

Ear

Diseases

Cirrhosis

otitis interna

Nephritis

Conjunctivitis

✓ **Eyes** – **conjunctivitis**

✓ **Kidney** – **nephritis**

✓ **Liver** – **cirrhosis**

✓ **Ear** – **otitis interna**

52. (a) Give **two** examples of electric conductors.

✓ **Metals e.g Copper // aluminum //silver //steel**

✓ **Alloys e.g brass and bronze**

(b) Write one living source of electricity.

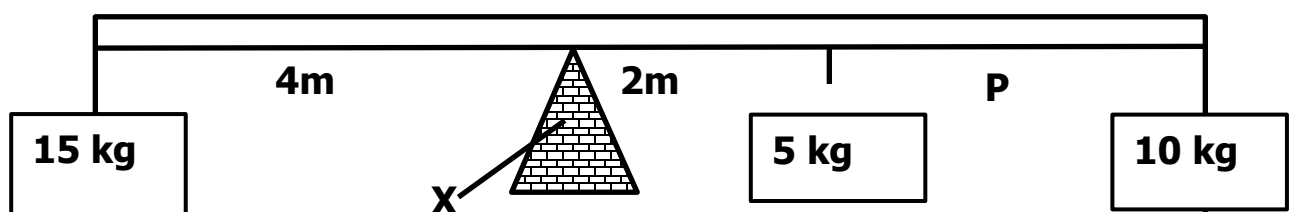
✓ **Electric eel**

**Note:** *electric eel is a fish that can generate powerful electric shocks.*

(c) Why is a glass envelope of a bulb made transparent?

✓ **To allow light to pass through.**

53. Use the diagram below to answer the following questions.



a) Calculate the value of **P** in the diagram above.

$$L \times LA = E \times EA$$

$$15\text{kg} \times 4\text{m} = 5\text{kg} \times 2\text{m} + 10\text{kg} (2\text{m} + P\text{m})$$

$$60 = 10 + 20 + 10p$$

$$60 = 30 + 10p$$

$$60 - 30 = 30 - 30 + 10p$$

$$\frac{30}{30} = \frac{10}{10p}$$

$$3 = P$$

**P is 3m**

b) Use letter X to show the turning point on the above diagram.

c) What happens to the effort applied on the machine if its mechanical Advantage is greater than 1?

✓ **The effort reduces**

✓ **The effort applied is less than the load**

54. (a) State the method of grazing cattle where temporary fences carrying current are used.

✓ **Strip grazing**

(b) Mention **one** method used for drying animal skins.

✓ **Suspension drying**

✓ **Wet salting**

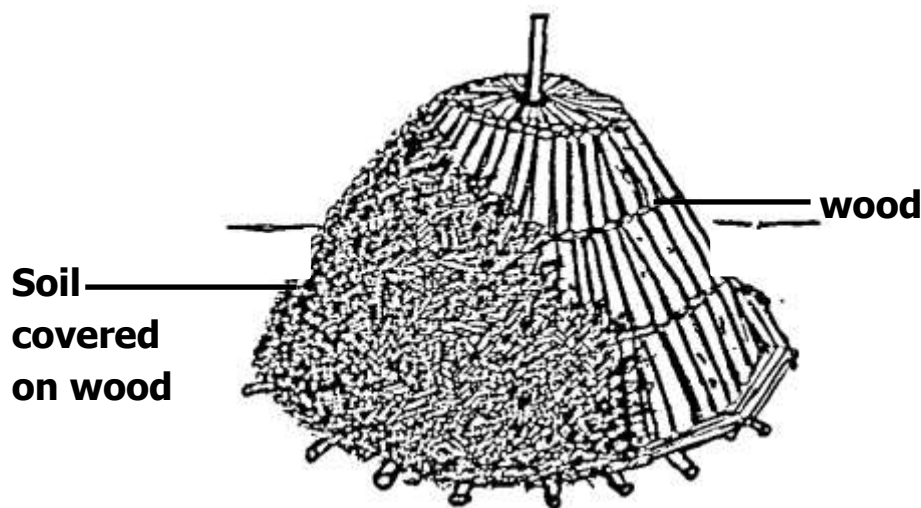
(c) Name the animal product used for making whey.

✓ **Milk**

(d) Give **one** difference between dosing and drenching as used on a cattle farm.

✓ **Dosing is the giving of solid medicine to an animal orally to kill endo parasites while drenching is the giving of liquid parasites to an animal to kill endo parasites**

55. The diagram below shows a local charcoal making process. Use it to answer questions that follow.



- (a) Give the reason why wood is covered with soil before applying fire.
- ✓ **To ensure limited supply of oxygen.**
- (b) Give **one** use of the substance obtained from the above process.
- ✓ **Charcoal is used for cooking food.**
  - ✓ **Charcoal is used for water and air purification.**
  - ✓ **Charcoal is used as medicine to treat poisoning.**
- (d) Write **two** advantages of using charcoal over wood fuel.
- ✓ **Charcoal burns cleaner than wood fuel.**
  - ✓ **Charcoal produces less smoke unlike wood fuel.**
  - ✓ **Charcoal retains heat for a longer period than wood fuel.**
  - ✓ **Charcoal produces less ash and residue compared to wood fuel.**

**END**

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