SUREKEY EXAMINATIONS BOARD

PRIMARY FOUR PLACEMENT SET

2023

INTEGRATED SCIENCE

PREPARED BY:

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SECTION A: 40 MARKS

Questions **1** to **40** carry **one mark** each

1. **What name is given to the surrounding of a living thing?**
   ✓ Environment

2. **Which eye disease is spread by a housefly?**
   ✓ Trachoma (reject : diarrhoea, typhoid, cholera)

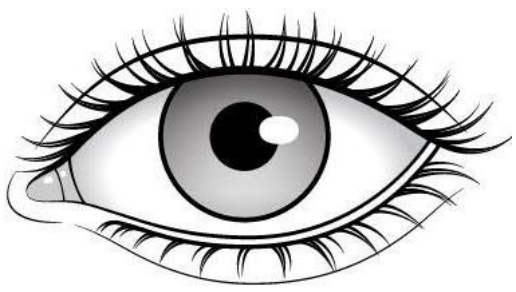
3. **State any one use of soap in promoting personal hygiene.**
   ✓Used when bathing to remove dirt from the body.
   ✓Used when washing hands to kill germs.
   ✓Used when washing clothes to make them clean.
   Reject ;
   ✓Used when washing utensils.
   ✓Used when mopping the floor.
   ✓Used when scrubbing latrines or toilet floors.

4. **Give any one example of a natural change.**
   ✓floods ✓ climatic changes ✓ earthquake
   ✓hailstorms ✓ volcanic eruption ✓ seasonal changes
   ✓drought ✓ landslides
   ✓mineral formation ✓ lightning

The diagrams below are parts of a human body. Use them to answer questions 5 and 6.

S

K



5. **Name the part of the body marked K.**
   ✓the eye / eye
6. **Which body sense is detected by the body part marked S?**
   ✓hearing / sense of hearing
7. **Which type of clouds are the highest in the sky?**
   ✓cirrus clouds
8. **State the type germination that a millet seed undergoes.**
   ✓hypogeal germination
9. **Which type of objects form shadows?**
   ✓opaque objects

10. **Why do farmers harvest their crops during dry season?**
- ✓To allow proper drying of harvested crops due to plenty of sunshine.
- ✓There is abundant sunshine for proper drying of harvested crops

11. **How are charcoal useful in the process of cooking?**
- ✓Source of fuel which speeds up the rate of cooking.

(**Reject;** they are used for cooking.)

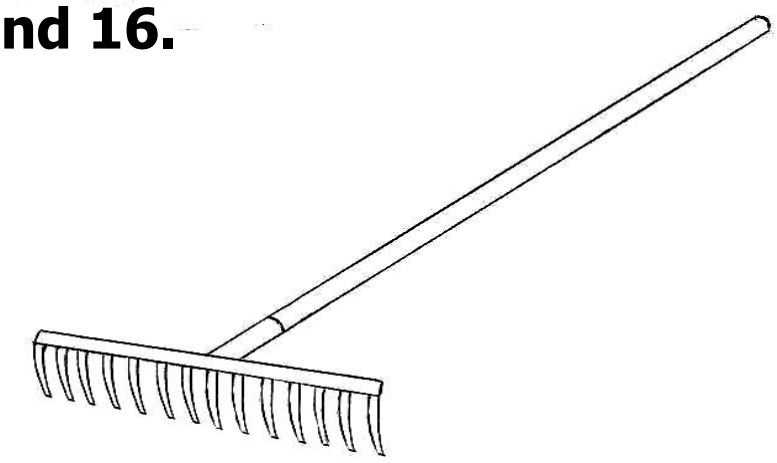
12. **Write down any one example of a PIASCY message found in school compounds.**
- ✓Say no to sex
- ✓Avoid gifts for sex.
- ✓Virginity is health.
- ✓Avoid bad touches.
- ✓Stay in school.
- ✓Avoid dark corners.
- ✓AIDS kills and has no cure.

13. **State any one characteristic of a bird which makes it a living thing.**
- ✓It feeds.
- ✓It reproduces.
- ✓It excretes.
- ✓It breathes.
- ✓It responds to stimuli.
- ✓It respires.

(**Reject;** It dies, It moves, It has life)

14. **How can the breeding of mosquitoes be controlled in our compounds?**
- ✓Draining stagnant water.
- ✓Pouring oil on stagnant water.
- ✓Rearing fish in ponds to eat mosquito larvae.
- ✓Clearing bushes in the compound.

The diagram below shows a garden tool. Use it to answer questions 15 and 16.



15. **Name the garden tool above.**
- ✓garden rake / rake

16. **How is the above garden tool important to a crop farmer?**
- ✓For levelling soil.
- ✓For collecting cut weeds.
- ✓For spreading manure.

(**Reject;** For collecting rubbish)

17. **State any one characteristic of natural materials used in basic technology.**
- ✓They are cheap to get.
- ✓They are heavy.
- ✓They do not have specific colours.
- ✓They exist on their own.

18. **State any one use of crafts to people.**
- ✓Mats are used as seats.
- ✓Crafts are sold for money.
- ✓Craft mats are used for wearing.
- ✓Baskets are used for carrying things.
- ✓Mats are used as beds.
- ✓Ropes are used for tying farm animals.
- ✓Dolls are used as playing materials.
- ✓Pots are used to keep water.
- ✓Some pots are used as cooking materials.
- ✓Baskets are used on functions as packing materials.
- ✓Some crafts are used for storing food.
- ✓Some crafts are used for decoration.

19. **How is a dustbin useful at home?**
- ✓For keeping rubbish before its disposed of.
- ✓For proper disposal of rubbish.

20. **Which deficiency disease is caused by lack of Vitamin A in the body?**
- ✓night blindness

21. **State any one property of air.**
- ✓ Air has weight.
- ✓ Air exerts pressure.
- ✓Air occupies space.
- ✓Air can be compressed.

(**Reject**; Air can move/ moves things)

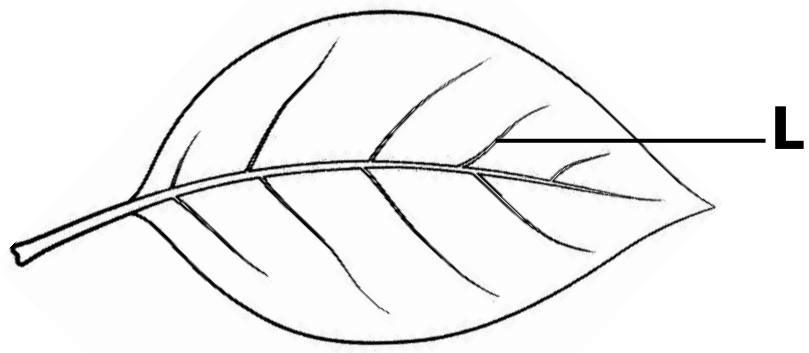
22. **State the difference in movement between a bat and a snake.**
- ✓A bat flies while a snake glides or slithers.
- ✓A bat moves by flying while a snake move by slithering or gliding.

23. **State any one way in which having regular physical exercises is important to the body.**
- ✓Physical exercises increase body flexibility.
- ✓Regular physical exercises reduce the level of fats in the body.
- ✓Reduce body weight.
- ✓Improves the body's ability to resist some diseases.
- ✓Improves blood circulation in the body.
- ✓Improves digestion and food absorption in the body.

24. **How is the amount of rainfall measured?**
✓By using a rain gauge.

25. **Which immunisable disease causes lameness?**
✓polio disease / polio / poliomyelitis

The diagram below shows a part of a flowering plant. Study and use it to answer questions 26 and 27.



26. **Identify the part labelled L.**
✓leaf blade / lamina

27. **On which system of flowering plants is the above part found?**
✓shoot system

28. **Why is it important to wash hands after visiting a latrine?**
✓To remove germs from hands.
✓To remove dirt from hands.
(**Reject;** To kill germs.)

29. **How is painting metallic tools useful?**
✓Prevents rusting.

30. **State any one importance of water in building houses.**
✓used to mix sand with cement.
✓Used to mix paint for painting walls.
✓Used to mix soil for making bricks or blocks.
✓Used to mix clay for making roofing tiles.

31. **Apart from Angora, name any one other exotic breed of rabbits kept inyour community.**
✓chinchilla rabbits
✓Californian rabbits
✓rex rabbits
✓Newzealand white rabbits
✓Ear lop rabbits
✓Lopped ear rabbits
(**Reject;** California rabbits Also reject words without " rabbits" e.g. Californian, chinchilla, newzealand…)

32. **State any one way of saving resources at home.**
✓Switching off electricity when not in use.
✓Keeping money in banks or piggy banks.
✓Proper use of materials.
✓Recycling some materials e.g. plastics
✓Preparing enough food to save fuel.
✓Preparing a budget.

33. **Give the meaning of the term energy.**
- ✓The ability to do work.

34. **How does a kite behave when released in air?**
- ✓Floats / It floats / It becomes less dense / Its density reduces. / It flies. / It remains in the space.

35. **Write down any one of the 4Fs in germ path.**
- ✓Faeces
- ✓Flies
- ✓Food
- ✓Fingers

36. **Name any one method of making water safer for drinking.**
- ✓Boiling water
- ✓Chlorination
- ✓Fluoridation
- ✓Accept adding / treating using recommended chemicals. (**Reject;** Adding chemicals)

37. **Name the young one of a turkey.**
- ✓Poult (**Reject;** chick, tuckling, nestling.)

38. **Give any one effect of accidents to a person.**
- ✓Accidents lead to pain.
- ✓They can lead to cuts and bleeding.
- ✓Accidents can lead to lameness.
- ✓They can lead to death.
- ✓They can lead to dislocation.
- ✓Accidents damage some body organs e.g. skin, brain.

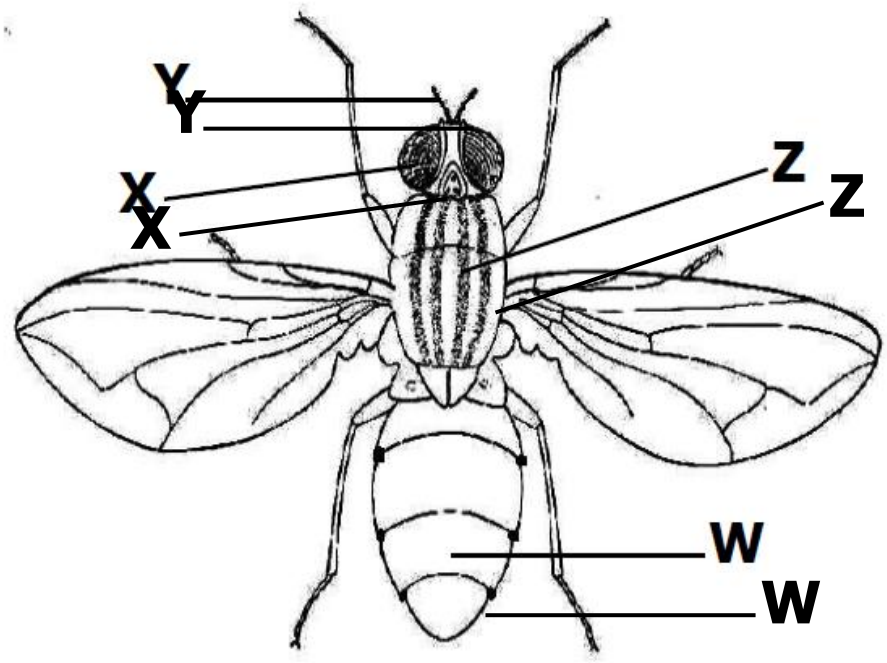
39. **State any one reason why people iron clothes before wearing them.**
- ✓To kill lice and their eggs.
- ✓To kill germs in clothes.
- ✓To remove bad smell in clothes.
- ✓To remove creases in clothes.
- ✓To look smart and clean.

40. **Apart from fetching water, mention any one other role of children at home.**
- ✓Mopping the house.
- ✓Looking after animals
- ✓Bathing siblings.
- ✓Sweeping the rubbish.
- ✓Fetching firewood.
- ✓Washing clothes.

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41. **The diagram below shows an insect. Study and use it to answer the questions that follow.**



a) **Name the parts marked X and Z.**
   i) **X** compound eye
   ii) **Z** thorax

b) How is part marked Y useful to an insect?
✓Used for feeling.
✓Used for hearing.
✓Used for smelling.
✓Used for tasting.
✓Used for detecting change in temperature.

c) What happens to an insect when part marked W is dipped in water?
✓It dies.
✓It suffocates.

42. **a) Name the component of air used for,**

i) supporting burning. Oxygen / O_2

ii) putting out fire. Carbon dioxide / CO_2

b) State any two dangers of wind to people.
✓Causes accidents
✓Food contamination
✓Air pollution
✓Destroys crops / blows off house roofs.
✓Causes shame when it lifts off peoples clothes.
✓Leads to soil erosion
✓Raises dust
✓Spreads airborne diseases

43. a) **Write down any two items used in giving first aid to a casualty.**

✓Cotton wool
✓Razorblade
✓Safety pin
✓Plaster
✓Bandage
✓Splints
✓Stretcher
✓Armstring
✓Surgical spirit
✓Surgical gloves
✓Gauze
✓Plaster

(**Reject;** cotton , spirit)

b) Give any two reasons why casualties need to be given first aid.

✓To save life.
✓To promote quick recovery.
✓To prevent further injuries.
✓To stop bleeding if any.
✓To reduce pain.
✓Reduce bleeding incase of any cut.
✓To prevent the condition from getting worse.

44. a) **Write down any two examples of projects people set up in the community .**

✓Bee keeping
✓Poultry keeping
✓Tree planting
✓Brick making
✓Fish farming
✓Drama group
✓Making crafts
✓Rabbit keeping
✓Brick making

b) **Give any two importance of projects to people in the community.**

✓They are sources of income.
✓They enable people to get skills and knowledge.
✓They create jobs to people.

45. **In the table below, Part A shows terms used to describe soil and Part B has the meanings of the terms.**

Part A: Terms	**Part B:** Meanings
Soil erosion	Ability of the soil to allow water pass through it
Soil profile	Ability of the soil to support plant growth
Soil fertility	Removal of top soil by wind or rain
Soil drainage	Vertical section showing soil layers

(8)

Use the meanings in Part B of the table to match the terms below.

a) **Soil erosion:** Removal of top soil by wind or rain.

b) **Soil profile:** Vertical section showing soil layers.

c) **Soil fertility:** Ability of the soil to support plant growth.

d) **Soil drainage:** Ability of the soil to allow water pass through the soil.

46. a) **Write down any two areas in the environment that need to be kept clean.**

- ✓Houses
- ✓Latrines / toilets
- ✓Kitchens
- ✓Compound
- ✓classrooms
- ✓urinals
- ✓water sources

b) **State any two reasons for keeping the areas above clean.**

- ✓To control easy spread of germs.
- ✓To promote good health in the community.
- ✓To prevent unpleasant smell.
- ✓To prevent food contamination.
- ✓To control diseases.
- ✓To control the spread of diarrhoeal diseases.

47. a) **Which group of animals live on their own?**

- ✓Wild animals

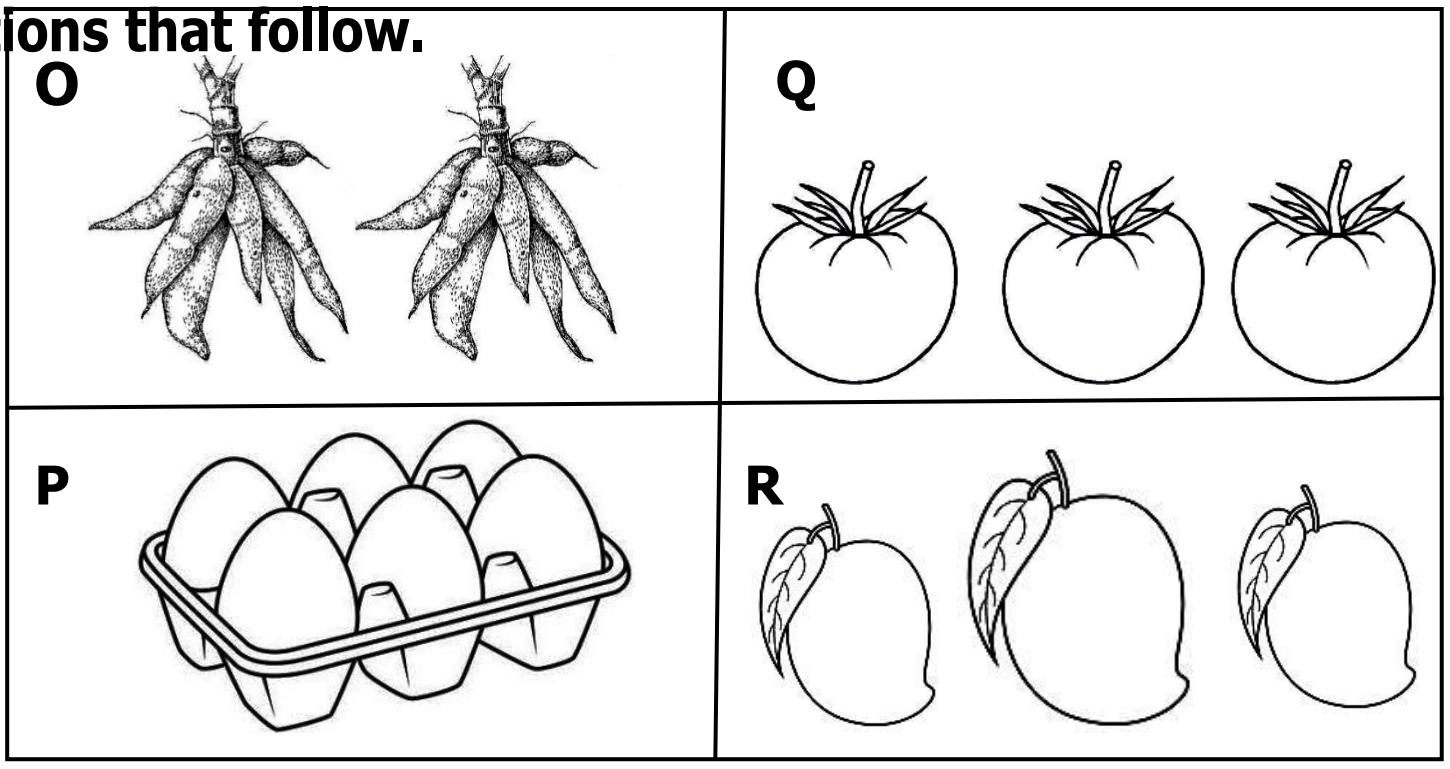
b) **Mention any two examples of such animals.**

- ✓Lions
- ✓Tigers
- ✓Rats
- ✓Snakes
- ✓Cheetahs
- ✓Hyenas
- ✓Elephants
- ✓Antelopes
- ✓Buffalos
- ✓Zebras
- ✓Frogs
- ✓Monkeys
- ✓Baboons
- ✓Squirrels
- ✓moles

c) **State any one way of caring for such animals.**

- ✓Keeping them in game parks and zoos.
- ✓Conserving forests
- ✓Controlled hunting.
- ✓Controlling poaching.
- ✓Conserving wetlands (swamps)
- ✓Treating those in game parks and zoos when sick.

48. **The diagram below shows food stuffs. Study and use it to answer questions that follow.**



a) **Name the food stuffs labelled O.**
✓cassava

b) **What class of food is found in food stuff marked R?**
✓Vitamins (**reject;** glow food / protective foods)

c) **Identify the source of food stuff labelled P.**
✓animals

d) **Which food stuff from the above diagrams is used as a spice when frying sauce?**
✓Food stuff Q / Q (**Reject ;** tomatoes)

49. a) **Mention any two examples of common diseases in the community.**
✓Mumps
✓Malaria
✓Influenza
✓Diarrhoea
✓Typhoid
✓Peptic ulcers
✓Ringworm
✓Scabies
✓Covid 19

b) **State any one way in which the above diseases spread.**
✓Through mosquito bites.
✓Through handshake.
✓Through inhaling contaminated air.
✓Through drinking contaminated water.
✓Through taking alcohol excessively.
✓Through sharing clothings and beddings.
✓Through failing to bathe.

c) **Give any one way of controlling common diseases in the community.**

- ✓Controlling the breeding of mosquitoes.
- ✓Regular bathing
- ✓Washing clothes and beddings.
- ✓Ironing clothes and beddings.
- ✓Boiling water for drinking.
- ✓Observing standard operation procedures.
- ✓Limit alcohol intake.
- ✓Avoid sharing clothes.
- ✓Promoting food hygiene.

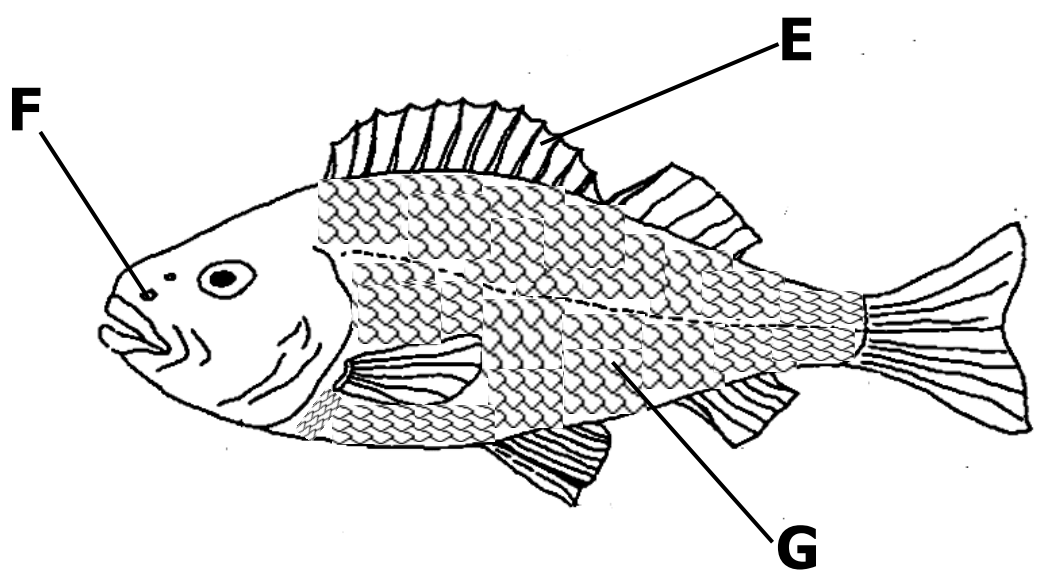
50. a) **Give any two functions of roots to plants.**

- ✓Hold the plant firmly in the soil.
- ✓Absorb water and mineral salts for the plant.
- ✓Prop roots provide extra support to the plant.
- ✓Some roots are used for breathing.
- ✓Root nodules of legumes store rhizobia bacteria.
- ✓Some roots are used in vegetative propagation.

b) **State any two ways in which roots are useful to people.**

- ✓Some roots are eaten as food e.g. cassava, sweet potatoes.
- ✓Some rots are sold to get money.
- ✓Some roots are used as wood fuel.
- ✓Some roots are used as herbal medicine.
- ✓Some roots are used for making crafts.
- ✓Legumes improve of soil fertility by fixing nitrates in the soil.

51. **The diagram below shows an aquatic animal. Study and use it to answer the questions that follow.**



a) Name the parts marked E and G.

i) **E** dorsal fin

ii) **G** scales

b) Give the function of part marked F to above aquatic animal.

✓For smelling food in water. / for smelling / for smelling plankton.

c) Why is the above creature called an aquatic animal?

✓The above creature lives in water. / It lives in water / It spends all its life in water.

52. a) **Give any two natural sources of water.**

✓Rain
✓Natural lakes.
✓Natural rivers.
✓Hot springs
✓Geysers
✓Oceans
✓Seas
✓Streams
✓Glaciers
✓Ice melts

(**Reject;** rainfall / dams /boreholes / taps / canals / wells / tanks.)

b) State any two uses of water to school children.

✓For drinking
✓For washing
✓For cooking
✓For bathing
✓Rinsing the mouth
✓Practical studies.
✓Cleaning toilets / latrines and paved compounds.
✓Cleaning the floors during mopping.

(**Reject;** for mopping / for scrubbing / for brushing)

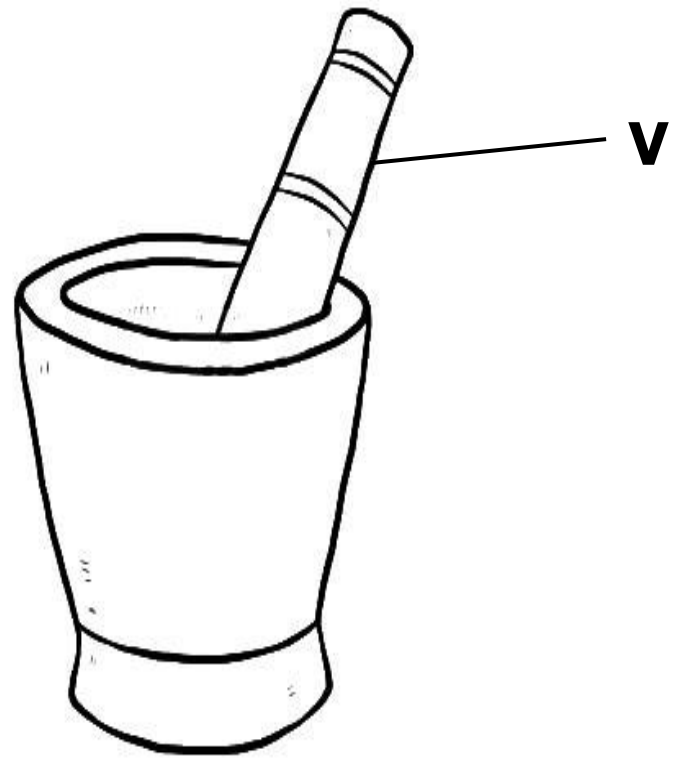
53. **a) Name the animal that lives in a,**

i) byre - cow/ bull / cattle / calf /oxen / bullock / steer
ii) basket – cat / kitten

b) State any two importance of milk as an animal product.

✓Sold for money / source of income.
✓Provides proteins when drunk.
✓For drinking.
✓Used to make dairy products like yoghurt.
✓Animal milk is used for bottle feeding.
✓Dairy work has improved peoples standards of living.
✓Provides jobs to people.

54. **The diagram below shows a tool made from local materials. Study carefully and use it to answer the questions that follow.**



a) Identify the tool shown in the diagram.
✓Mortar / pounding mortar

b) How is the above tool useful to people?
✓Used for grinding some food stuffs and herbal medicine.

c) Mention any one material used to make the above tool.
✓Wood ✓metals

d) Name the part marked V on the above tool.
✓pestle

55. **a) State any two factors that damage the environment.**
✓Cutting down trees.
✓Overgrazing
✓Bush burning.
✓Over stocking
✓Industrial wastes
✓Charcoal burning
✓Brick making
✓Dumping harmful wastes on soil.

b) Give any two ways of conserving the environment.
✓Mulching the soil.
✓Proper waste disposal.
✓Limiting industries.
✓Rural electrification.
✓Planting trees.
✓Terracing the soil.
✓Planting short grass.

END

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