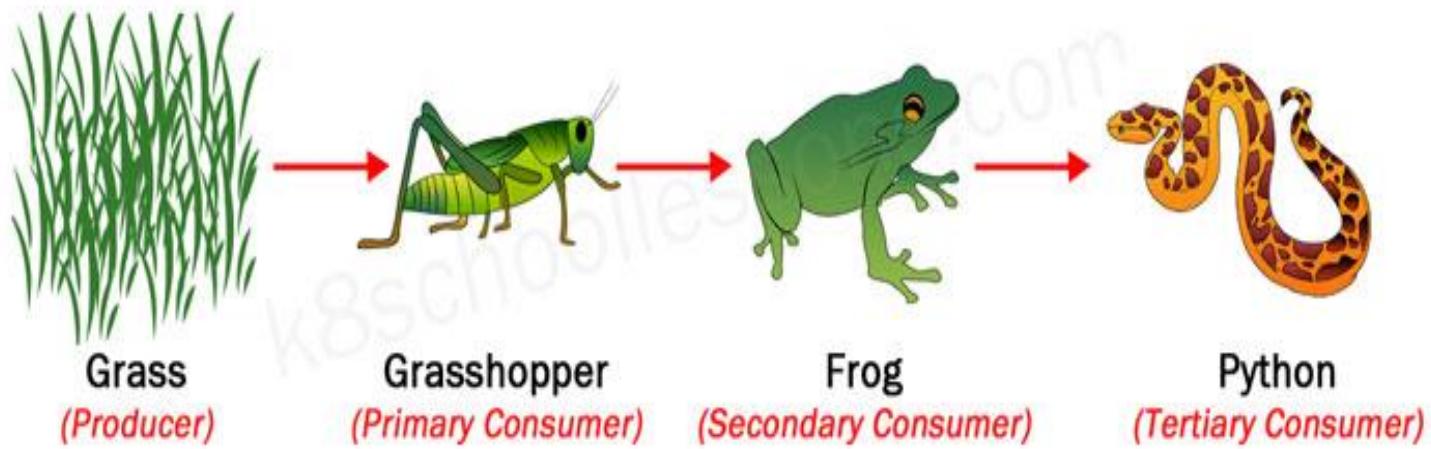


Science

Tekart Revision Practice Book

Vol 3



Primary Seven

Index No:

Name:

School:

Year:

SECTION A: (40 marks)

1. Name one component of soil.

2. State any one characteristic of insects.

3. Which vector spreads yellow fever to people?

4. Which part of the body do people use for smelling?

5. Give a reason why it is difficult to find the volume of a stone using the formula $L \times W \times H$?

6. State any one physical process which occurs in a water cycle.

7. Give any one example of a tuber crop.

8. How can a pregnant woman avoid giving birth to a baby with weak bones?

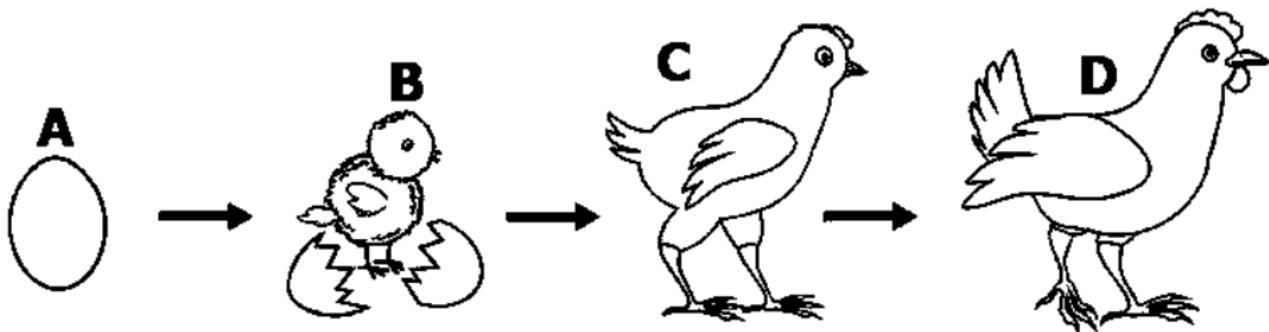
9. Write down one way in which people use animals in their communities.

10. How is the item below useful in promoting sanitation at home?



11. State one way of preventing tooth decay.

The diagram below shows a type of change which occurs in living things. Study it to answer questions 12 and 13.



12. Which type of change is shown in the diagram above?

13. State the result of the type of change in the diagram.

14. Give one way in which a farmer uses a forked hoe.

15. How does mulching help to control growth of weeds in the garden?

16. Give a reason why it is important to wash hands before preparing food.

17. Name one part of the small intestines.

18. Give one way in which echoes are controlled in cinema halls.

19. How does too much sunshine affect food production in a community?

20. Apart from Cornish white, name any one other exotic breed of chicken kept for meat.

21. How do farmers protect rabbits from being attacked by dogs?
-
22. State the way in which red blood cells are able to transport oxygen around the body.
-
23. What is the importance of covering electric wires with plastic materials?
-
24. Name one disease protected against using DPT vaccine.
-
25. State one use of bee propolis to people.
-
26. Give a reason why COVID-19 patients are treated in isolation.
-
27. Write down any one form of energy produced by water at 100oC.
-
28. State one way in which gullies created in the school compound can be prevented.
-
29. Which diseases in rabbits has the following signs;
wounds in the ears and ears bend downwards?
-
30. In which way is the sun a useful resource to people?
-
31. Give one example of a diarrhoeal disease.
-

Use the diagram of a musical instrument below to answer question 32.



32. How does the instrument in the diagram produce sound?
-

The diagram below shows hot milk that was poured into two different containers W and P. Study it and use it to answer questions 33 and 34.



33. In which of the containers did the milk cool first?
-

34. Give a reason why the milk in the two containers did not cool at the same time.
-

35. How do energy saving charcoal stoves help to conserve trees in the environment?
-

36. How can the breeding of poor quality animals be controlled on a goats farm?
-

37. Why should a victim of a third degree burn be encouraged to drink a lot of fluids?
-

38. Which group of non-flowering plants use seeds for reproduction?
-

39. Which element of Primary Health Care helps to check the size of a family?
-

40. Give one way in which animals as resources can be cared for at home.

Section B

41(a) Name the component of air which is;

(i) a waste product of respiration_____

(ii) needed for respiration_____

(b) State where each of the following processes take place in the human body.

(i) gaseous exchange_____

(ii) breathing_____

42(a) Apart from fermentation, state the other process of making alcohol.

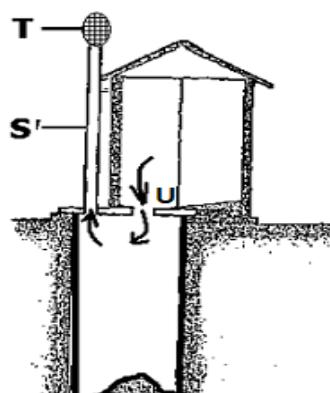
(b) Write down any one source of sugar in the process of fermentation.

(c) Name two body organs which are damaged by excessive taking of alcohol.

(i) _____

(ii) _____

43. The diagram below shows a VIP latrine. Study it and answer questions that follow.



(a) Name the part labelled S and T.

(i) S _____

(ii) T _____

(b) Give a reason why part U does not have a lid (cover).

(c) How is the air inside the pit able to move out through part S?

44. In the table below, part A shows terms used in simple machines and part B has the meaning of the terms.

A

B

effort the ration of the load to the effort.

fulcrum distance between the pivot and the load. mechanical

advantage force applied to overcome the load on a
machine.

load arm turning point of a machine.

(i) effort _____

(ii) fulcrum _____

(iii) mechanical advantage _____

(iv) load arm _____

45(a) Name the part of the female reproductive system where fertilization takes place.

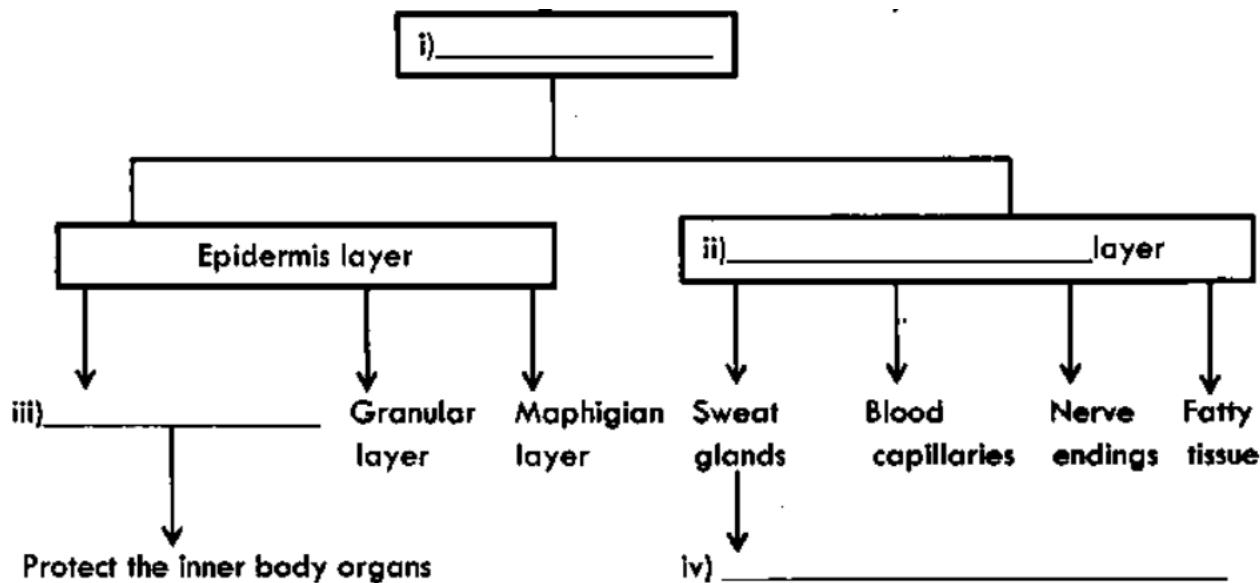
(b) State two functions of the amniotic fluid during pregnancy.

(i) _____

(ii) _____

(c) In which way is a placenta useful in the feeding of the foetus in the womb?

46. The flow chart below is about one of the human body organs. Study and use it to fill the missing information correctly.



- 47(a) Write down any two factors considered when sorting clothes for washing.

- (i) _____
- (ii) _____

- (b) State what can be done during cleaning to:

- (i) remove stains from the cloth before washing_____
- (ii) remove folds (wrinkles) after washing and drying the cloth_____

- 48(a) Apart from amphibians, state two other groups of cold blooded vertebrates.

- (i) _____
- (ii) _____

- (b) Give two ways in which the jelly substance found on the eggs of a toad is important.

- (i) _____
- (ii) _____

49(a) Write down any two devices which can be used to store sound.

(i) _____

(ii) _____

(b) State two ways in which stored sound can be reproduced.

(i) _____

(ii) _____

50(a) Name the kind of movable joint found at the elbow.

(b) Apart from the elbow, give one other example of the joint in (a) above.

(c) Name two bones which form the joint at the elbow.

(i) _____

(ii) _____

51(a) Write down any two elements of weather needed by plants for growth.

(i) _____

(ii) _____

(b) In which two ways does air support plant growth?

(i) _____

(ii) _____

52(a) Use the table below to give the difference between bacteria and fungi.

Feature	Bacteria	Fungi
Reproduction

(b) Apart from yeast, give one other example of fungi.

(c) How is the reproduction of yeast different from that of other fungi?

53(a) What are weeds?

(b) State one way in which weeds are useful to people.

(c) Give two ways in which weeds affect crop growth.

(i) _____

(ii) _____

54(a) In which state of matter does heat travel slowest?

(b) How are liquids similar to gases in terms of heat transfer?

(c) Which part of a thermos flask controls heat loss by?

(i) conduction _____

(ii) radiation _____

55(a) State any one indicator of poor sanitation in a home.

(b) Write down any two vectors that are common in a home with poor sanitation.

(i) _____

(ii) _____

(c) Give any one disease that can break out due to poor sanitation in a community.

1. Name one source of current electricity.

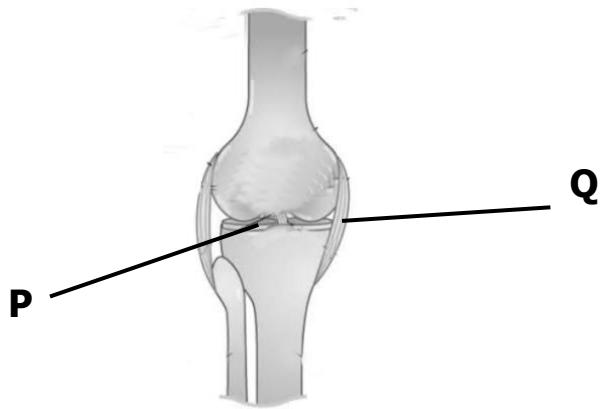
2. Which vector spreads yellow fever to people?

3. State any one use of a tooth paste in promoting personal hygiene.

4. Give any one example of a chemical change in living things.

5. Which group of warmed blooded vertebrates reproduce by laying eggs?

The diagram below shows parts of a human skeleton. Use it to answer question 6 and 7.



6. Name the structure marked Q.

7. What is the function of the part marked P?

8. State the type of goats kept for their hair.

9. What type of objects do not allow all the light to pass through them?

10. Why do people use clay soil for modeling?

11. How is wax in the ear of human beings important?

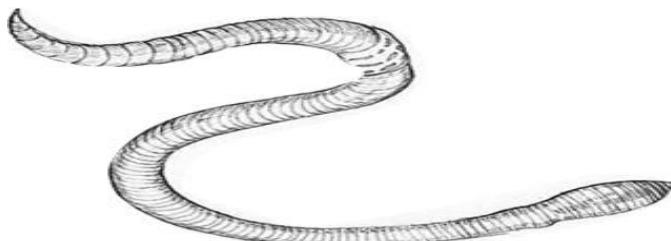
12. Write down one way of caring for crops in a nursery bed.

13. State any one characteristic of molar teeth which makes them suitable for their function.

14. How can breeding of mosquitoes be controlled apart from draining stagnant water?

15. Which deficiency disease causes soft and weak bones?

The diagram below shows a worm. Study it and answer questions 16 and 17.



16. Name the worm shown in the diagram above.

17. How is this worm useful to people in the environment?

18. State any one characteristic of laboratory manufactured drugs.

19. Give any one way you can conserve the home environment.

20. How do plants benefit from the sun?

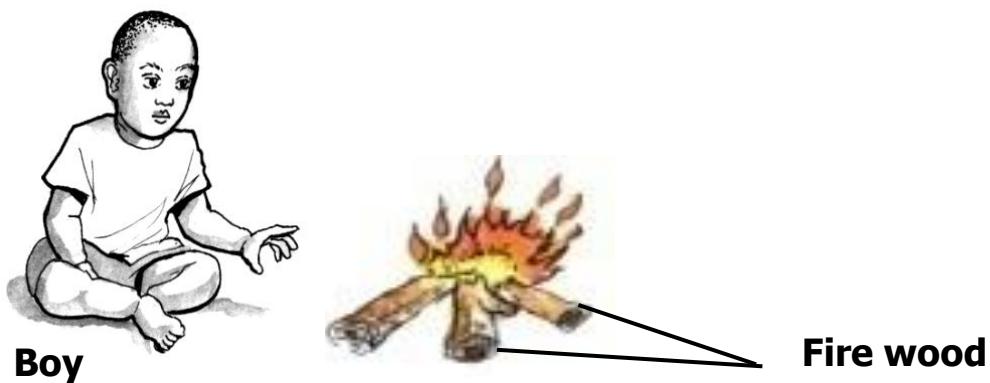
21. State one characteristic of renewable resources.

22. Give any one function of blood plasma.

23. State any one way in which having enough rest and sleep is important to the human body.

24. How is a mango adapted to animal dispersal?

The diagram shows a boy warming himself on a cold day.



25. Name the energy change when the wood burns to give fire.

26. By what means does the heat from the fire reach the boy?

27. Give one type of energy given off by the fire.

28. How does dipping a scald in cold water help the victim?

29. State the importance of the epiglottis during breathing.

30. Which water borne disease affects the liver?

31. Apart from income, give any one other importance of table birds.

32. Which rabbit disease causes shivering, sneezing and difficulty in breathing?

33. Give one way in which electricity produced by dry cells can be increased.

34. How does a liquid behave when placed in a container?

35. State any one condition which is favourable for plants to make food.

36. Name any one vegetable crop which is propagated by use of stem cutting.

37. Which group of invertebrates have a body shell?

38. Apart from preventing STDs, give any one other advantage school children get from PIASCY programme.

39. Give one way farmers preserve seeds for planting.

40. Name any one human organ that stores fats in the body.

SECTION B

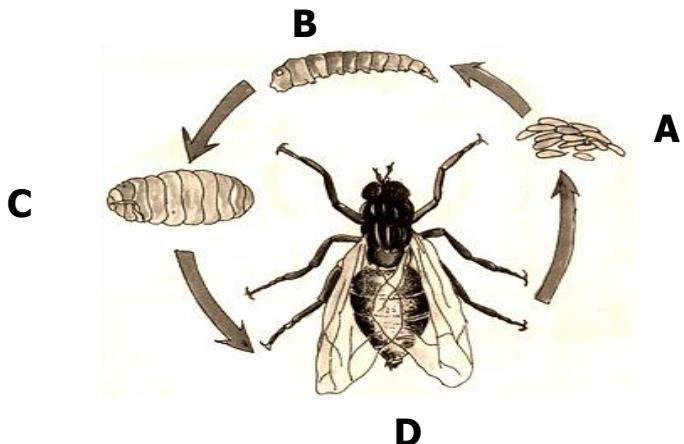
41(a) Name the least component of air.

(b) Why are rare gases used to fill electric bulbs?

(c) Give one use of wind as an energy resource.

(d) How can dangers of wind be prevented in the environment?

42. The diagram shows the life cycle of an insect. Study it and answer questions that follow;



(a) Name one insect which has the type of life cycle shown above.

b) Which stage of this insect is more dangerous to people?

c) How is stage B different from stage C?

d) What do we call this type of life cycle?

43. a) Write down any two causes of drowning.

i. _____

ii. _____

b) Give any two ways of avoiding drowning at home.

i. _____

ii. _____

44.a) Write any two reasons why bats are classified as mammals.

i. _____

ii. _____

b) In which two ways are bats different from birds.

i. _____

ii. _____

45.a) Write down any two ways of collecting information from a health survey.

i. _____

ii. _____

b) Give two importance of a health survey to the government.

i. _____

ii. _____

46. In the table below, part A shows minerals and vitamins and part B has uses.

Part A	Part B
Iron	Makes thyroxin
Calcium	Prevents bleeding gums and improves skin
Iodine	Makes bones and teeth strong
Vitamin C	Makes blood cells.

Iron _____

Calcium _____

Iodine _____

Vitamin C _____

47. a) Give one example of an exotic breed of sheep kept in Uganda.

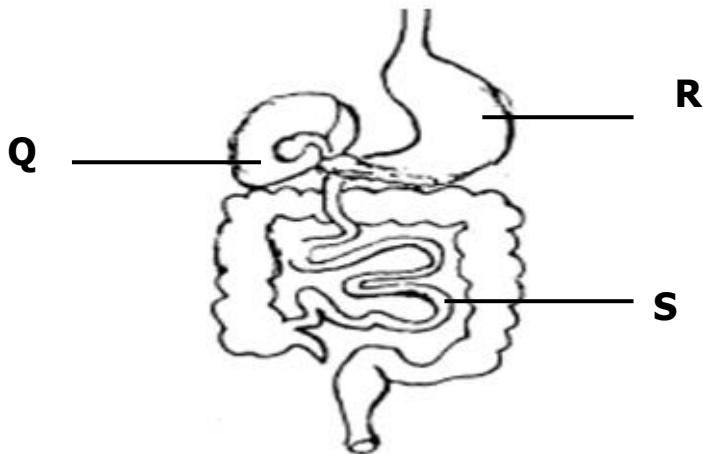
b) Name the meat got from sheep.

c) State any the diseases that commonly attack sheep.

i. _____

ii. _____

48. The diagram below is of part of the digestive system. Study it and use it to answer the questions.



(a) Name the digestive juice produced in parts R and S.

i. R: _____

ii. S: _____

b) Give the importance of the digestive juice produced by part Q.

c) Which part of the digestive system is not part of the alimentary canal?

49.a) State any two ways in which mulching can improve soil fertility.

i. _____

ii. _____

b) State any two disadvantages of mulching to a crop farmer.

i. _____

ii. _____

50.a) To which type of simple machines does an axe belong?

b) State any one use of an axe

(c) How can the efficiency of an axe be improved to make work easier?

(d) Give one other example of a machine which belongs to the same group as an axe.

51.a) State any two ways of promoting sanitation in a classroom

i. _____

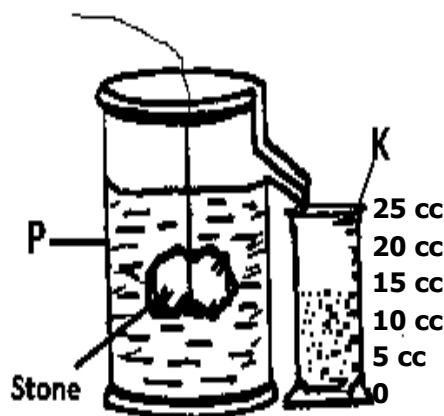
ii. _____

b) Give any two diseases that can break out in a school due to poor personal hygiene.

i. _____

ii. _____

52. The diagram below shows a process of finding the volume of a stone. Study the diagram and answer the questions that follow.



a) Name the containers marked P and K.

(i) P _____

(ii) K _____

b) What is the volume of the stone?

c) What method of solving a problem is shown by the experiment?

53.(a) What type of venation does a maize plant have?

b) Name the type of root system found in Maize.

c) Which type of roots does maize develop during the fruiting period?

d) To which group of flowering plants does maize belong?

54. a) Give one way in which soil is formed.

b) State any two properties of loam soil.

i.

ii.

c) Write down one way of controlling soil exhaustion.

55.a) What is the importance of bees to a crop farmer?

b) Give the importance of a honey chamber in a modern bee hive.

c) What do we call the breathing organs on the abdomen of a queen bee?

d) State the life cycle of a honey bee.

END.

SECTION A:

1. Which part of the human body is used to identify the smell of food being cooked?

2. How is a poisonous snake able to defend itself?

3. Why is proper disposal of rubbish important in a home?

4. Why should a farmer keep weather records?

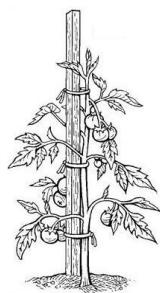
5. State one habit a family can practice in order to ensure hygiene in a home.

6. How do lorry drivers benefit from crop farming activities?

7. Name one effect of sunshine to the animals in the environment.

8. Why is it advisable to use shiny roofing iron sheets in Uganda than using dull coloured ones?

The diagram shows a practice done during tomato growing.



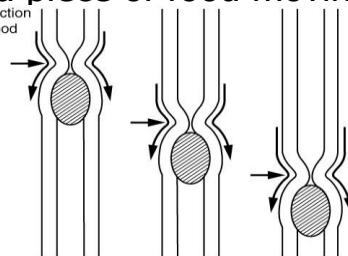
9. Give one reason why such a practice is done.

10. Give one way through which one can become a member of a particular family.
-

11. Why is artificial incubation preferred by commercial farmers?
-

12. Which vaccine is given to babies to protect them against tetanus?
-

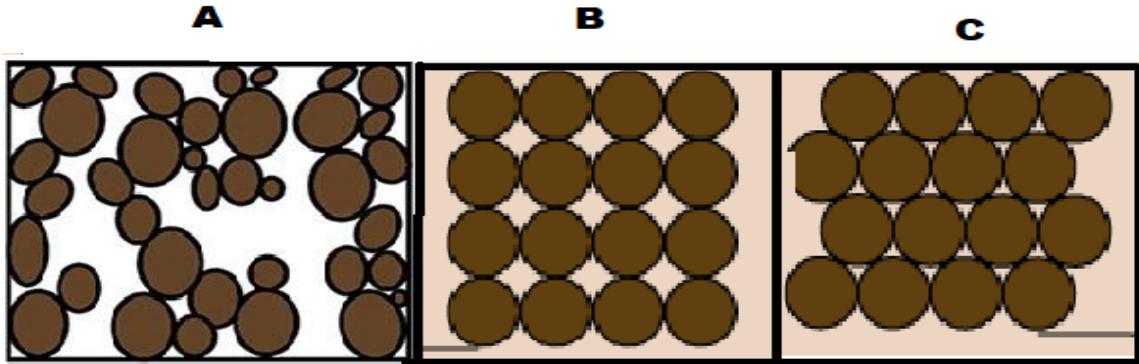
The diagram shows a piece of food moving through the gullet.



13. By what process does the above piece of food move downwards to the stomach?
-

14. State one factor that may make the food to fail to move downwards to the stomach.
-

The diagram shows particles of different soil samples.



15. Give one reason why soil sample B is highly used for crop growing.
-

16. How do the constructors of houses make it possible for convection to take place in the house?
-
17. State one importance of root tuber crops to a farmer?
-
18. If you were elected in the position of a health prefect, how can you ensure proper waste management in the school?
-
19. Which item is used by health workers and parents to record data when monitoring the changes that take place in babies?
-
20. How can the parents ensure child spacing in their family?
-
21. Which method of waste management is shown in the diagram?



-
22. How can the people constructing public buildings help people with disabilities to reach high raised places in a building?
-
23. Name one pollinating agent.
-
24. Why should a farmer maintain his garden tools in a proper working conditions?
-

25. How can the heavy rains be dangerous to crop farmers?

26. State one process that takes place during the water cycle.

27. Besides bathing, state one activity that can be done to maintain personal hygiene?

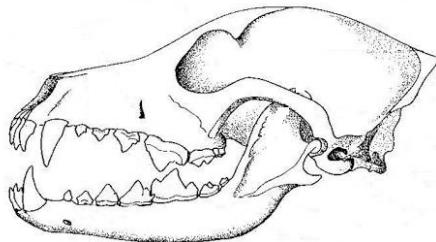
28. State one parasite that may infect people who do not practice proper hygiene.

29. What is food?

30. Name one activity that can be done to maintain food hygiene.

31. Besides the toothpaste, state one material that can be used to clean the teeth.

The diagram shows a jaw of a mammal.



32. Name the group of mammals the animal with such a jaw belong.

33. How are the insulators of electricity useful in our daily life?

34. Which apparatus do the tailors use to measure the size of your waist?

35. State one group of people who are at the highest risk of contracting COVID-19 disease.

36. State the difference between monocotyledonous and dicotyledonous seeds.

37. Give any one reason why mothers are advised to go for antenatal care when pregnant.

38. Apart from poor sanitation mention any one cause of sickness in a home.

39. State any one method used to store sound.

40. State one factor considered when selecting a site for a living house.

SECTION B

41.(a) What is Smoking?

(b) Give any one reason why people smoke tobacco.

(c) State any one health effect of smoking on an individual.

(d) How can you help an addicted friend to stop smoking?

42.(a) State the difference between germs and diseases.

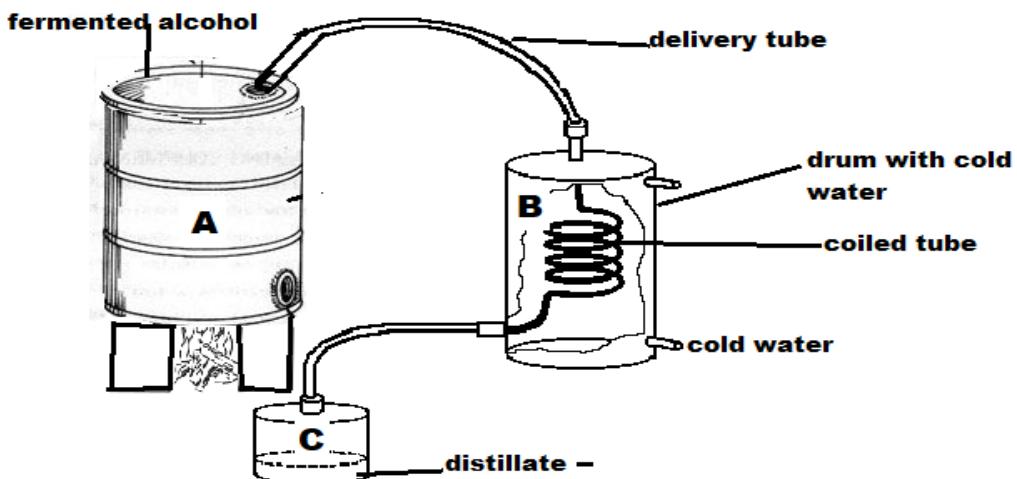
(b) State two common entry points for COVID-19 germs into our body.

i. _____

ii. _____

(c) How is the proper and regular putting on masks help to control infection against COVID-19?

43. The diagram below represents a method of Alcohol production.



(a) Name the process taking place at A.

(b) How does heat reach the fermented alcohol in container A?

(c) At what temperatures does the alcohol in A start evaporating?

(d) Of which use towards health is product got from the above method of making alcohol?

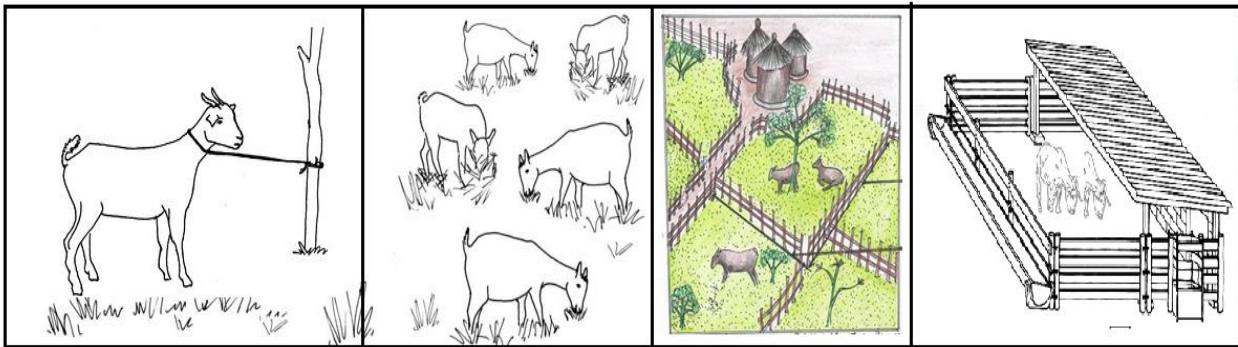
44.(a) How do animals benefit from plants during photosynthesis.

(b) Which food is made by plants during photosynthesis?

(c) Name one raw material for photosynthesis.

(d) In what part of a plant does photosynthesis mostly take place?

45.



A

B

C

D

(a) What is livestock farming?

(b) Which of the above methods of grazing would you recommend for the urban farmers?

(c) Give reason for your answer.

(d) Which poultry keeping system can be compared to method D?

46.(a) What are weeds?

(b) State one effect of weeds to crops.

(c) How are the weeds important to a farmer?

(d) Write down any one method of controlling weeds.

47.(a) What is PIASCY in full?

(b) Write down two PIASCY messages that may help to control AIDS.

- i. _____
- ii. _____
- (c) Name any one activity done by the teacher to guard against the spread of AIDS in the community.
-

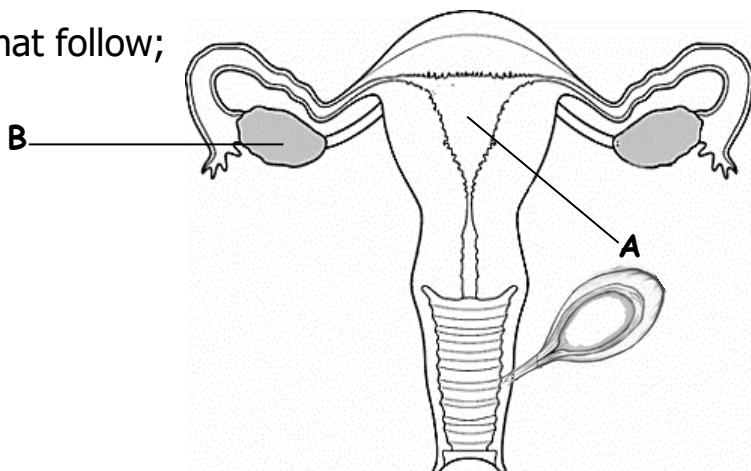
48.(a) Apart from the sun, give any one example of a renewable resource.

(b) Why is it important to conserve resources in the environment?

(c) Give one resource that helps to provide fuel to people.

(d) Name one organization that helps to conserve resources in Uganda.

49. The diagram below shows a human reproductive system. Study it to answer the questions that follow;



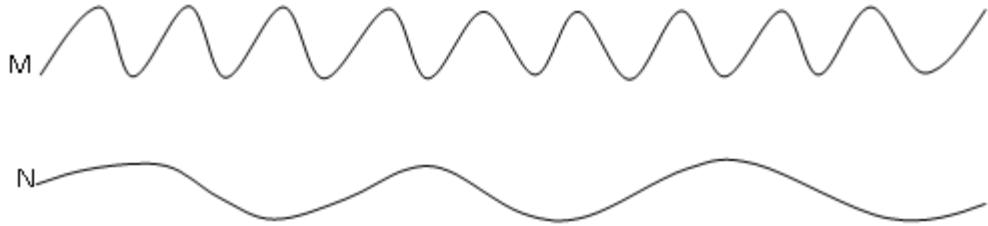
(a) Name part marked A?

(b) How is part B useful in the process of reproduction?

(c) Name one disease that affects the above system.

(d) Which sign in our daily life shows that the above organ is ready for reproduction.

50. The diagram below shows the movement of sound. Use it to answer questions that follow.



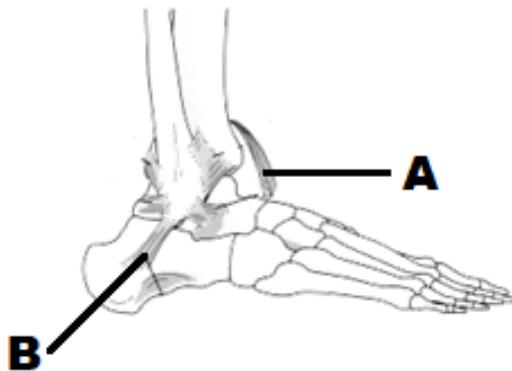
(a) How is the frequency of sound marked **M** different from that of sound wave **N**?

(b) What causes the sound waves during sound production?

(c) How can the frequency of the guitar string be increased?

(d) Give one economic importance of sound in our daily life.

51. The diagram below shows part of human skeleton found on the leg. Use it to answer questions that follow;



- (a) Give the use of part A in the system.

-
- (b) To what group of bones is the bone marked B above?

-
- (c) How are the bones prevented from wearing out due to friction at the joint shown?

-
- (d) Obuni's structure A got overstretched. What injury did he get?

- 52.(a) Name one health habit for the family that promotes oral health.

-
- (b) State one item that is used to promote the habit.

-
- (c) State two roles of children in a family in promoting health.

i.

ii.

- 53.(a) State one reason why the sun is useful during rain formation.

(b) Which process helps in the formation of clouds?

(c) How does sunny weather help crop farmers to carry out their activities?

(d) Mention one element of weather.

54.(a) Name one renewable source of energy for generating electricity.

(b) How are the electric charges moved from the source to the appliance where it is used?

(c) Why is it advisable to install lightning conductors on buildings?

(d) How are the magnets used in the electricity production?

55. Draw a tilapia fish and name the following parts.

Nostrils, scales, lateral line, dorsal fin.

END.

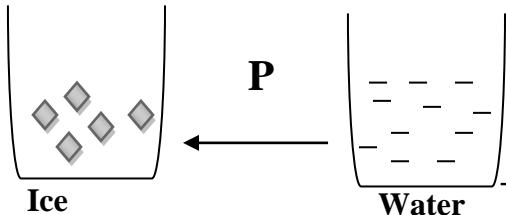
SECTION A

1. Give one way of reducing dust in the classroom.

2. How can a pupil keep his / her mouth free from harmful bacteria?

3. Name one external body organ in man.

4. Name the physical change marked with letter **P**.



5. Give one example of a food taboo.

6. Mention one condition needed by fertile eggs to hatch.

7. State one economic use of plants.

8. Give one condition that makes farmers to carryout culling in animals.

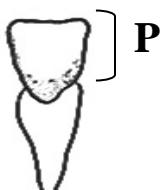
9. State one factor considered when choosing a site for a house.

10. Give one way of reducing the use of wood fuel in rural areas.

11. Which body sense organ helps man to identify colour?

12. Give one way of caring for people with special needs.

13. Name one mineral that keeps part **P** strong.



14. Name one activity done to promote family hygiene.

15. Given the plants below,

maize, ferns, mosses

How does maize differ from the rest of the plants above?

16. Why is it not necessary to smoke a VIP latrine?

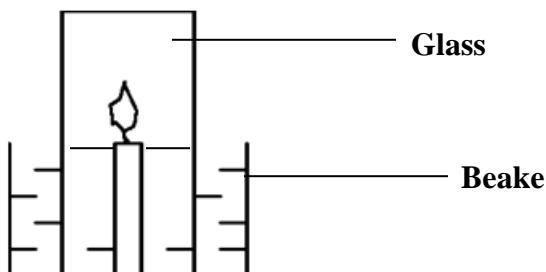
17. Name one problem faced by crop growers in Uganda today.

18. Why do some families fail to feed on a balanced diet?

19. How is a stem tuber useful to an Irish potato?

20. Give one way of controlling poultry diseases.

Use the diagram below to answer questions 21 and 22.



21. Name the part of air that supports the candle to burn.

22. Why does the candle go off when covered with a glass for 10 minutes?

23. Give one example of drug abused by drinking.

24. Name one product got from woodlots.

25. How are sperm cells similar to pollen grains?

26. Give one way people get non communicable disease.

27. Name one material used to produce biogas.

28. Mention one way man has caused environmental degradation.

29. State one way of storing music.

30. Why do mothers wash hands before making ORS?

31. Name one requirement of a pregnant mother.

32. Name the method of heat transfer shown below.



33. How is water useful to plants?

34. State one disadvantage of zero grazing in cattle.

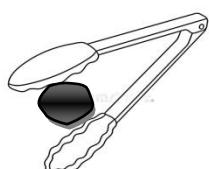
35. Mention one way the community may be sensitized about health issues.

36. Name one part of a house that allows in light and fresh air.

37. Mention one cause of school dropouts in a community.

38. Name one activity that can be done by a young farmers' club in a school.

39. Use letter K on the diagram below to show the position of the pivot.



40. Give one way of caring for female adolescents during menstruation.

Section B:

41. Complete the table below correctly by filling in the missing information about blood circulation.

Blood vessel	Type of blood carried	Body part from which it gets blood
Venacava	-----	All body parts
-----	oxygenated blood	Heart
Pulmonary vein	-----	Lungs
Artery	Deoxygenated blood	-----

42. Two objects P → 3g/cc and Q → 0.2g/cm³ were put in a container full of water.

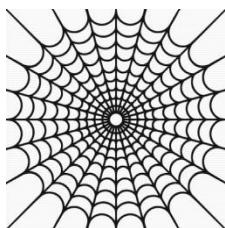
a) How did they behave when put in water?

P: _____ **Q:** _____

b) Compare the density of water and the density of object **P**.

c) Give one example of an object that behaves like **Q**.

43. Use the animal habitat below and answer questions that follow.



a) Name the animal habitat drawn.

b) Name the animal whose habitat has been drawn.

c) Why is the above animal named in (b) called an arthropod?

d) How do such animals help in the control of malaria?

44. a) Apart from amoeba and plasmodia, mention any one example of protozoa.

b) Identify any two examples of algae.

i) _____

ii) _____

c) Identify any one example of spore producing plants.

45. Match correctly.

A

a) Natural shadow

B

rainbow

b) Static electricity in nature

eclipse

c) Natural magnet

lightning

d) Natural spectrum

lodestone

a) Natural shadow

b) Static electricity in nature

c) Natural magnet

d) Natural spectrum

46.The table below shows the findings of a COVID-19 task force in certain schools in Wakiso. Use it to answer questions that follow.

Schools	Use of masks	Hand washing facility	Social distancing	COVID-19 messages
P	✓	✓	✗	✓
Q	✓	✗	✗	✗
R	✓	✓	✗	✓

Key: ✓ Items Present ✗ Items Absent

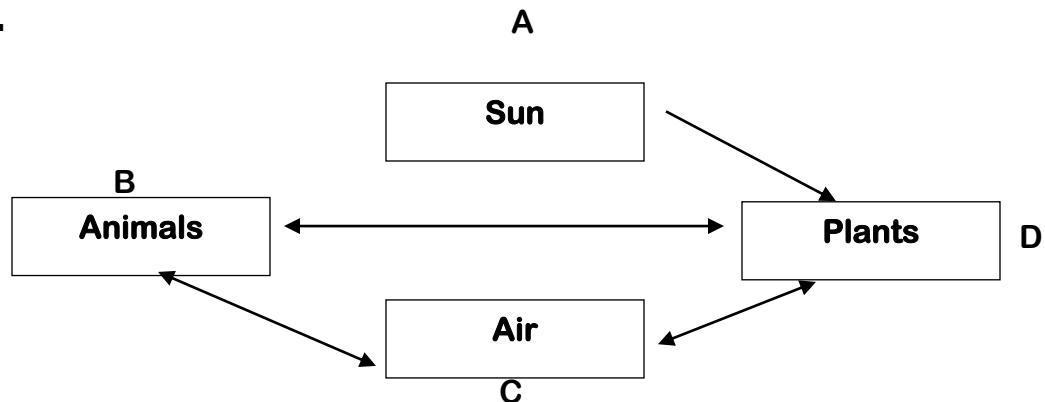
a) Which school lacked most of the items checked?

b) Which health aspect was lacking in all schools checked?

c) How are COVID-19 messages useful in the control of the disease?

d) Name one item used during hand washing at school.

47.Use the illustration below about resources to answer questions that follow.



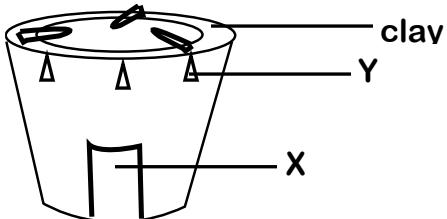
a) How does D benefit from B?

b) Give one danger of A to D?

c) Which process in D is supported by A?

d) How is B replaced naturally?

48.The diagram below show an energy saving stove, use it to answer the questions that follow.



a) Give the importance of the hole marked **X**.

b) Name the fuel used in the above stove.

c) How does the above stove help to reduce deforestation?

d) Mention one danger associated with using such stoves.

49.Use the table below to answer questions that follow.

P	Q	R	S
Ostrich	Newt	Bee	Gorilla
Dove	Frog	Scorpion	Man
Parrot	Toad	Crab	Bush baby

a) How are organisms in group **R** different from the rest of the organisms in the table? _____

b) Give one way organisms in group **P** care for their young ones.

c) Which of the above groups undergo external fertilization?

d) How are organisms in **S** different from those in **P** in terms of reproduction?

50.a) Name the term used to describe the reflected sound.

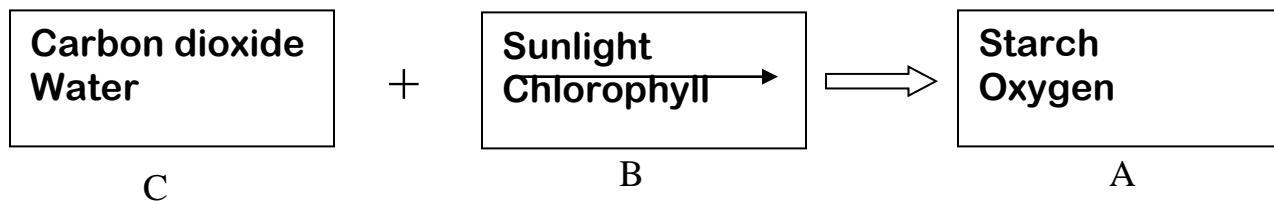
b) State any two disadvantages of the term named in (a) above.

i) _____

ii) _____

c) How is the pinna adapted to its function of collection of sound wave?

51. Use the illustration below to answer questions that follow.



a) Name the process illustrated above.

b) Which letter shows:

i. The raw materials of the above process.

ii. The conditions that are needed for the process above.

c) How does the above process benefit the plant?

52. a) How is the sun useful as an energy resource?

b) Mention one advantage of using the sun as an energy resource.

c) Why are solar panels painted black?

d) Give one danger of the sun to the environment.

53. a) Apart from HEP B vaccine, give any one other vaccine given at 6 weeks.

b) Apart from free immunization, give one other health service provided by the government to the people.

c) How does the government get to know the health status of people in a country?

d) Name one place in a community where immunization is carried out.

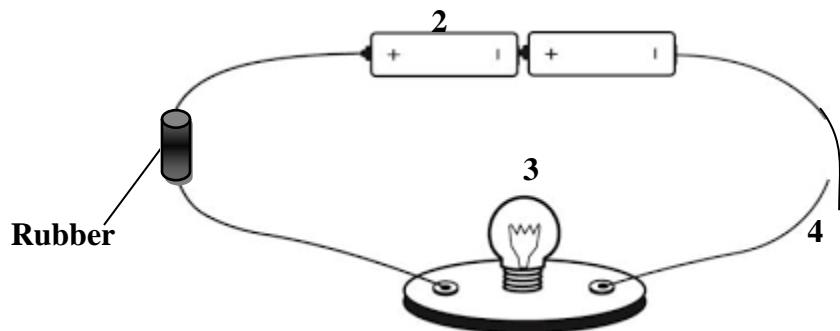
54. a) Name two steps involved in washing clothes.

i) _____ ii) _____

b) How can a mother make muddy water clean for washing clothes?

c) Mention one activity done to kill parasites in clothes.

55. The diagram below shows a simple circuit. Use it to answer questions that follow.



a) Name the part of the circuit marked **4**.

b) Which energy is stored in part **2**?

c) Why won't part **3** produce light when part 4 is closed?

d) How is electricity useful at school?

End

SECTION A.

1. Name any **one** living resource in our environment.

 2. Why are birds said to be vertebrates?

 3. How does slashing tall grass control disease spread in a home?

- Use the diagram below to answer questions 4 and 5.**
- 
- The diagram illustrates a visual impairment where parallel light rays from a distant object fail to meet at the retina due to a refractive error. The rays pass through the lens and diverge before reaching the back of the eye, creating a blurred image.
4. Which eye defect is shown in the diagram above?

 5. How is the defect above corrected in people?

 6. Why should the government of Uganda carryout demography.

 7. Identify any **one** primary sex characteristic in girls.

 8. What happens to an iron metallic tool when it is exposed to moisture and oxygen?

 9. State any **one** importance of a health parade in a school.

 10. In which **one** way are red blood cells adapted to transporting oxygen around the body?

 11. To which group of arthropods does a millipede belong?

 12. Identify the role of gills to a mushroom.

 13. Name the body sense that enables a pupil to realize change in temperature.

 14. How useful are honey bees to a crop farmer?

 15. What happens to an object whose density is 0.19g/cc when placed on the surface of pure water?

16. State **one** method of making a magnet.

17. Give any **one** way of maintaining proper working of the circulatory system.

18. Which type of root system is shown in the diagram below?



19. Mention any one example of animal fibre got from grats

20. Apart from removing dirt, why should the udder and teats should be washed with warm water before milking?

21. How do enzymes help in food digestion?

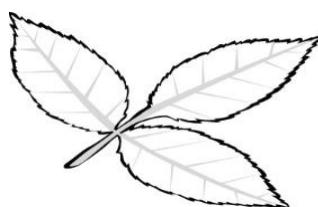
22. Name any **one** mammal that moves by flying.

23. What is the role of plants in a food chain?

24. Name any **one** disadvantage of breast feeding to a mother.

25. Mention any one product got from bees.

26. How does heat travel through areas without any matter?



27. Which type of compound leaf is shown above?

28. Give a reason why displacement method is used to find the volume of a stone.

29. Why is HIV/AIDS considered a problem of one's immunity?

30. Use arrows to show the behaviour of the magnets below if they are pushed nearer.



31. What is agro-forestry?

32. How can Kwashiorkor be prevented in a baby without giving drugs?

33. State the role of lungs during excretion.

34. How do plants use water in the soil?

35. Why should **one** brush the teeth after a meal?

36. In the space below draw a simple diagram to show that air can be compressed?



37. Why is row planting used by many farmers?

38. How is the use of electricity an advantage to the environment?

39. Point out the main natural source of water in the environment.

40. State any **one** cause of burns to a child.

SECTION B

41. a) What special name is given to the following substances in ORS;

i) Salt and sugar _____ ii) water _____

b) Why is ORS given to a child with diarrhoea?

c) Mention **one** cause of dehydration in babies.

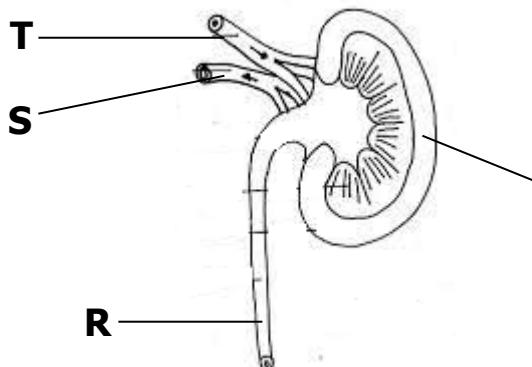
42. a) State the chemical change that take place in the living body cells of animals.

b) How is the process mentioned in (a) above important to animals?

c) State the important of the following during breathing

- i) Cilia _____
ii) Rings of cartilage _____

43. The diagram below is of a cross-section of a human kidney. Use it to answer questions that follow.



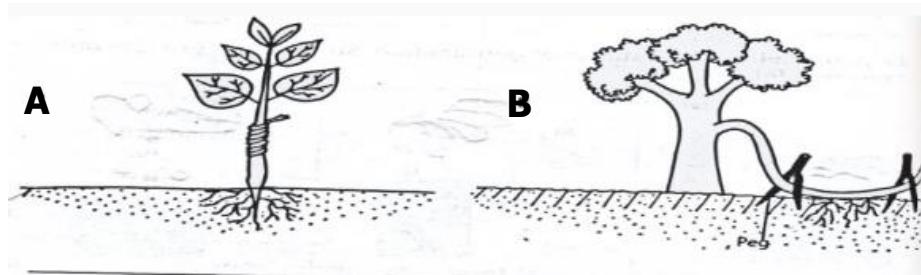
a) Name the part marked **R**.

b) What is the importance of part **P**?

c) How is blood carried by the blood vessel **S** different from that one in vessel **T**?

d) How important are kidneys in the body besides filtering blood?

44. a) identify the vegetative propagation methods drawn below.



A_____

B_____

b) State any one advantage of vegetative propagation.

c) Apart from vegetative propagation, give one other way in which plants are propagated.

45. a) Mention any **one** common type of clouds apart from nimbus.

b) How do nimbus clouds lead to the cooling of the atmosphere?

c) Which weather instrument do farmers prepare in response to the presence of nimbus clouds in the sky?

d) Name the type of weather that results from the presence of nimbus clouds in the sky.

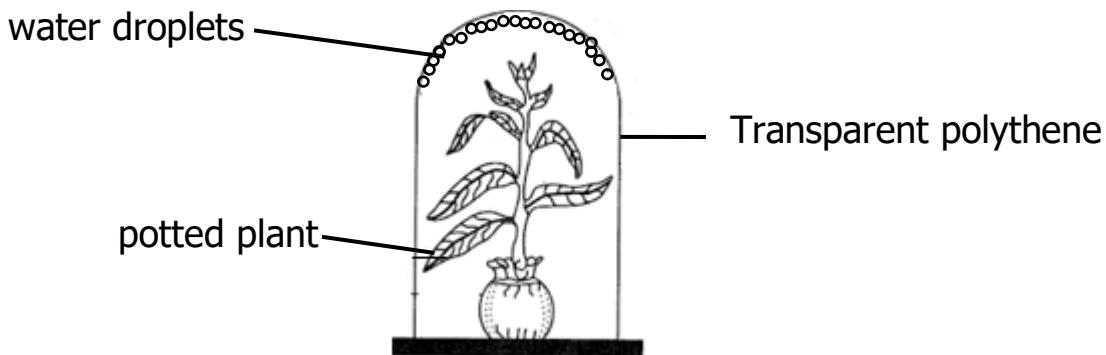
46. a) Give any **one** advantage of crop rotation.

b) Identify the group of crops that increases soil fertility when included in crop rotation.

c) How do the crops above increase soil fertility?

d) Give any **one** example of the above crops.

47. **The diagram below shows an experiment done by P.4 class during a science lesson. Use it to answer questions that follow.**



a) Which natural process did P.4 experiment?

b) How is that natural process important?

i) In the environment _____

ii) To a plant _____

c) Write down any **one** factor that may decrease the rate of the above process.

48.a) Name any **one** example of string musical instrument.

b) How does a string musical instrument produce sound?

c) How can **one** make pitch of sound produced by a string go higher?

d) Why does a shorter string of a string musical instrument produce higher pitch than the longer one?

49. a) Name **one** activity under each of the following element of PHC;

i) control of communicable diseases _____

ii) Food and nutrition _____

b) Give any **one** importance of carrying out PHC activities in the community.

c) State any **one** principle of PHC.

50. a) Why is fighting in class considered to be an anti-social behaviour?

b) State **one** effect of failing to enforce rules and regulations at school.

c) In which **one** way does the good behaviour of parents help to control anti-social behaviour in their children.

b) Give **one** danger of anti-social behaviour in the community.

51. a) How does spider differ from an insect in the physical appearance?

b) In which **two** ways can insects be dangerous to people?

i) _____

ii) _____

c) Point out any **one** common product from insects that is useful to people.

52. Match the following correctly.

List A

Thermal

Hydro electricity

Nuclear electricity

Geothermal electricity

List B

Hot spring (steam)

Uranium

Fossil fuel

Fast flowing water

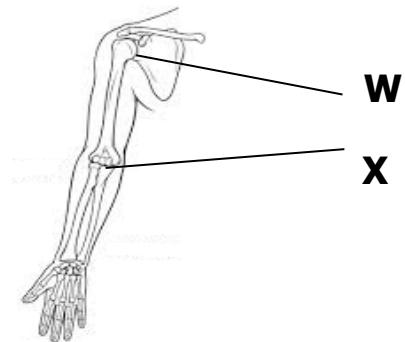
Thermal

Hydro electricity

Nuclear electricity

Geothermal electricity

53. Study the diagram below carefully and answer questions below.

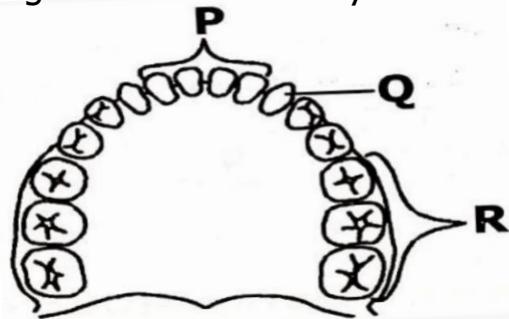


- a) Use an arrow with letter Y to show triceps muscles on the diagram.
b) Why are biceps and triceps muscles called voluntary muscles?

c) Which type of movable joint is shown at W?

d) How is movement of joint X similar to that of knee joint?

54. Study the diagram below carefully and answer questions that follow.



- a) Name the type of teeth marked Q

- b) State the function of the following types of teeth.

- i) P _____
ii) Q _____

- c) Identify one difference between the structure of the types of teeth labeled Q and R

-
55. a) What term is used to refer to the regular use of tobacco?

-
- b) Mention the poisonous gas found in tobacco.

-
- c) State the effect of the gas mentioned in (b) above to the respiratory system.

-
- d) Identify any one example of commonly abused drug.

END

SECTION A: 40 MARKS

Question **1** to **40** carry one mark each.

1. Mention any one example of an eight legged animal.

2. Why does hot tea in a metallic cup cool faster than one in a plastic cup?

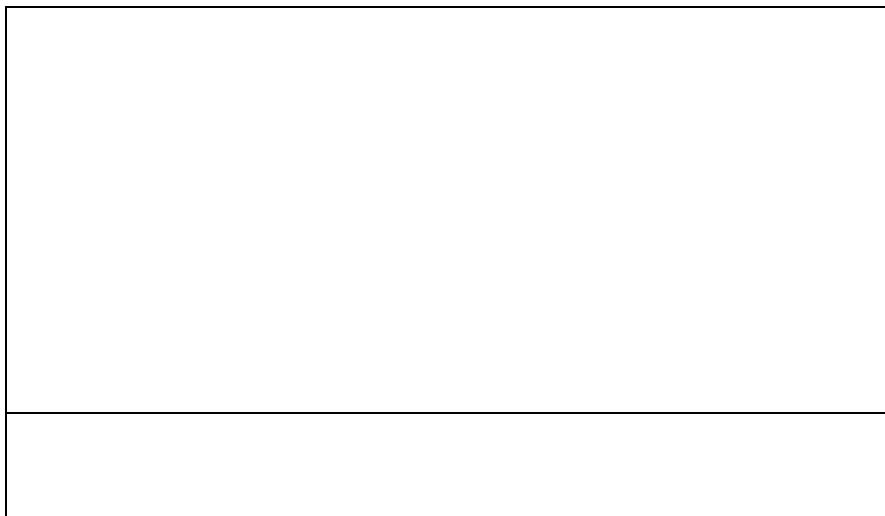
3. Give one example of voluntary muscle in the human body.

4. Why is a bat referred to as a nocturnal animal?

5. How are eggs of a fish fertilised?

6. In which way does a use of biogas conserve the environment?

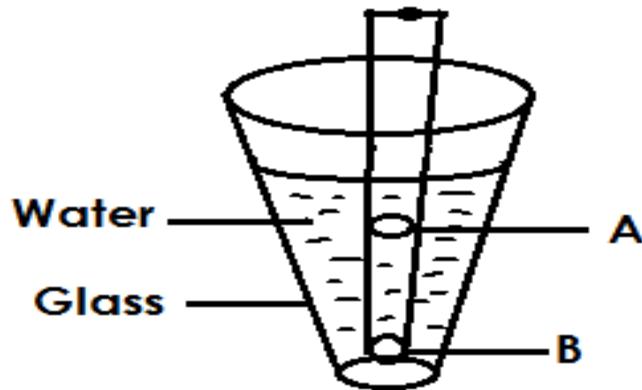
7. Name and draw the type of lens used to correct long sightedness.



8. Give one way in which the umbilical cord is important to the development of a foetus in the uterus.

9. What type of skeleton does an earth worm have?

The diagram below shows a coin in the glass of water. Study and use it to answer the question that follows.



10. Why does the coin seem to appear at point A yet it is at point B

11. Which agent of soil erosion causes gullies?

12. What is the main cause of fainting?

13. Name the vaccine that is administered to children at the age of 36 weeks.

14. Why is that vaccine mentioned above given to children at 36 weeks?

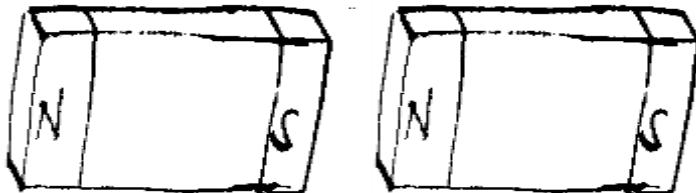
15. State a reason why water obtained by decantation method is not good for drinking.

16. Which property of magnets enables a magnetic compass to work?

17. State any one way how global warming can be controlled.

19. Name the sexually transmitted disease which causes blindness in unborn babies.

The diagram below shows two bar magnets placed close other. Use it to answer the question that follows.



20. Use arrows to show what happens to the two bars of magnets.



21. To which group of plants do ferns and liverworts belong?

22. Why do the people installing electricity wear rubber gloves?

23. How is the propagation of Irish potatoes different from that of sweet potatoes?

24. Name the part of the human ear responsible for balancing the body.

25. Give a reason why earthworms come out of the soil after it had rained.

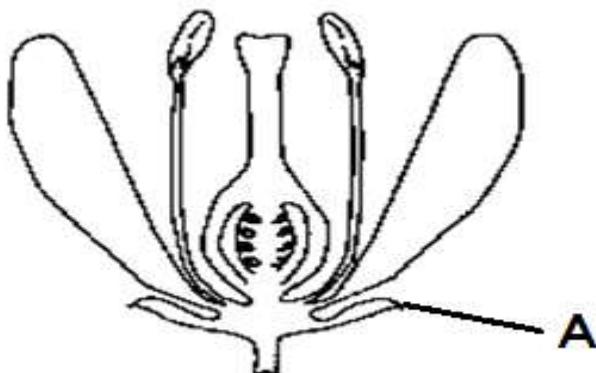
26. Why are the legs of a person who has fainted raised higher than the head as away of giving first aid?

27. Of what importance is water during the process of photosynthesis?

28. State any one importance of the liver in human body.

29. A man lives with his wife and two adopted sons. What type of family is this?

The diagram below is a section of a flower. Use it to answer questions 30 and 31.



30. Name the part marked A.

31. Use letter N to show the part that receives the male reproductive cells.

32. State any one way ant social behaviours can be controlled in the community.

33. How do pawpaw plants avoid self-pollination?

34. What substance in the human body helps in the formation of nails and hair?

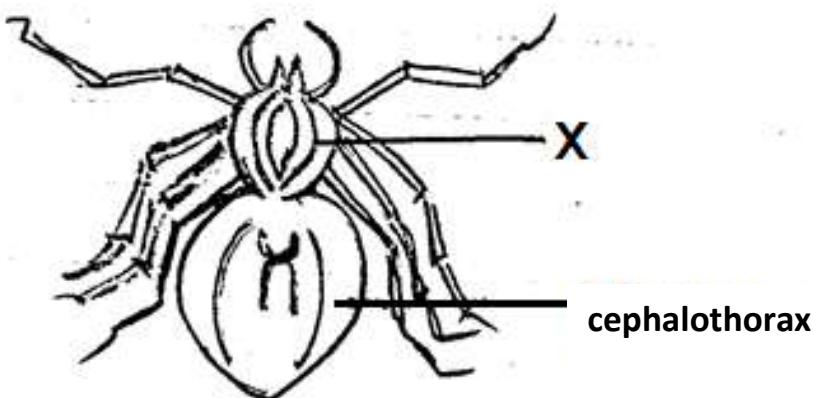
35. Why is the moon not regarded as a natural source of light?

36. Give one example of a mollusc which is a vector to humans.

37. Point out one way in which whales are able to maintain their body temperature in cold seas and oceans?

38. How is wind formed?

The diagram below is of a spider. Study it carefully and answer questions that follow



39. Name the part marked X

40. How does the spider above reproduce?



SECTION B : 60 MARKS

Question **41** to **55** carry four marks each

41. a) What name is given to an instrument used to measure the body temperature?

b) Name the liquid commonly used in the instrument.

c) Why should doctors shake the above instrument before measuring the temperature of the patient?

d) What is the temperature of a normal human being?

42.a) Give any two effects of heat on matter.

(i) _____

(ii) _____

b) State any two ways in which heat transfer by conduction is important to people.

(i) _____

(ii) _____

43.a) State any two natural causes of environmental degradation.

(i) _____

(ii) _____

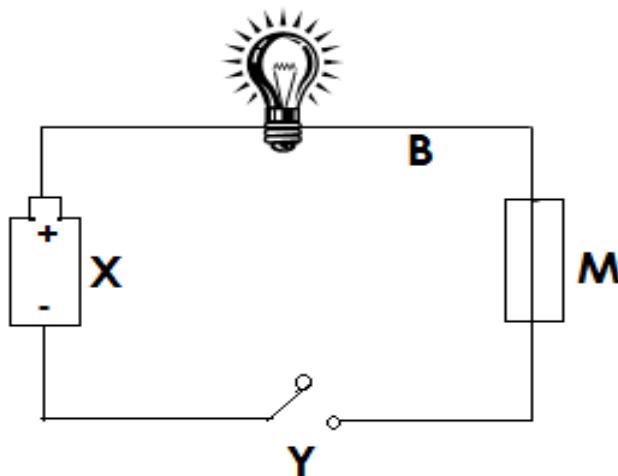
b) Give two human causes of environmental degradation.

(i) _____

(ii) _____



44. The diagram below is of simple circuit. Use it to answer questions that follow.



a) Name the parts marked B and M

B_____ M_____

b) State the energy change that takes place at X when Y is closed.

c) Give one form of energy stored in part X.

(i)_____

45. a. What are farm records?

b) Mention one type of farm records.

c) Give two importance of keeping farm records.

(i)_____

(ii)_____

46.a) State any two ways in which plants depend on each other.

(i)_____

(ii)_____

b) Give two ways in which animals depend on each other.

(i)_____

(ii)_____



47. How are the following crops propagated?

- (a) Banana _____
- (b) Pineapples _____
- (c) Carrots _____
- (d) Bryophyllum _____

48. The table below shows a list of animals. Use it to answer the questions that follow

S	T	U
Chameleon	Cow	Frog
Snake	Monkey	Salamander
Lizard	Lion	Newt

a) Which characteristic is common to all the animals in the table?

b) How is reproduction in animals in list U similar to those in list S?

c) Which list has warm blood animals?

d) Name any other animal that could be missing in list S

49.a) What name is given to the liquid part of blood?

b) Name one component of the liquid part of blood.

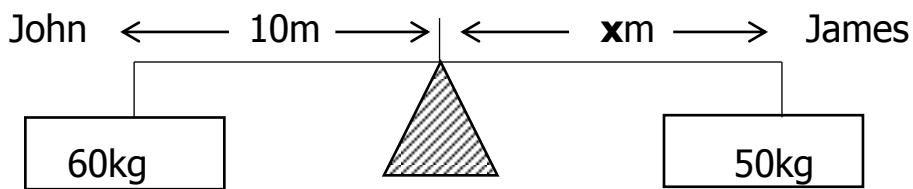
c) Give any two uses of the liquid part of blood.

(i) _____

(ii) _____



50. Use the diagram below to answer the questions that follow.



a) Name the simple machine above.

-
- b) Give one class of pulleys that behaves like the simple machine above.
-
- c) What distance will Xm be to enable the simple machine to be at equilibrium?

(2marks)

51.a) How is a life cycle of a locust different from that of a honey bee?

-
-

b) What scientific name is given to an adult stage of a housefly?

-
-

c) What name is given to the casing around a growing insect?

-
-

d) What causes moulting in insects?

-
-

52a) Why does the body need more oxygen than carbon dioxide?

b) State two types of respiration.

(i) _____

(ii) _____

c) Where does respiration take place in body of an animal?



53 a) Mention two causes of sickness in the community.

(i) _____

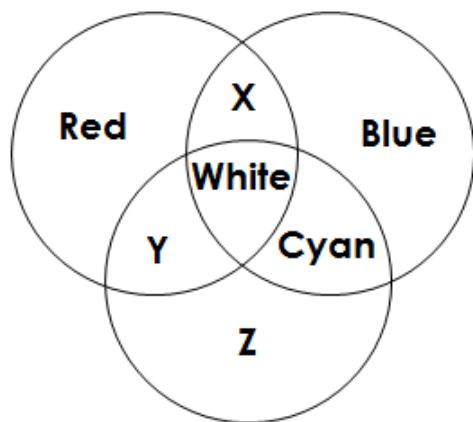
(ii) _____

b) State two ways how common sickness can be controlled in the community.

(i) _____

(ii) _____

54. An illustration below shows all the three types of colours. Use it to answer questions that follow.



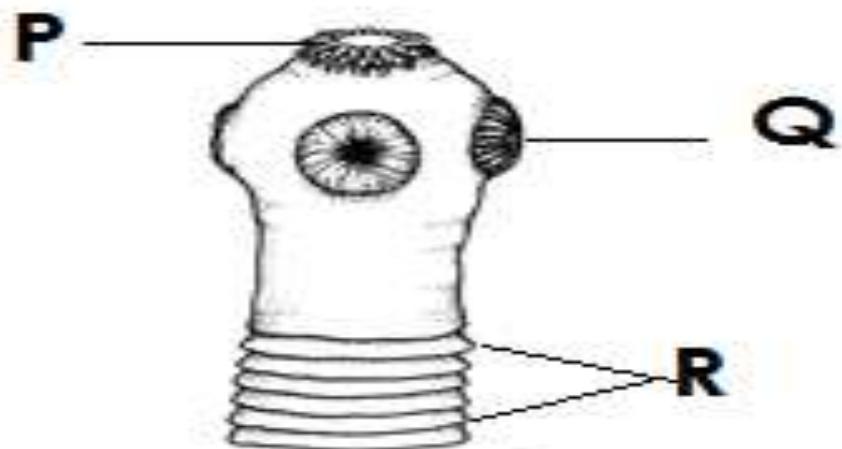
a) Name the colours labelled

X _____ Y _____

Z _____

b. State the lightest colour of the rainbow.

55. The diagram below shows a head of a tape worm. Study it and use it to answer the questions that follow.



a. Name the part marked Q

b. How does the above tape worm enter into the body of a human being?

c. What is the mode of feeding of the above tape worm?

d. How is part marked R important to the tape worm?

END



SECTION A: 40 MARKS

Question **1** to **40** carry one mark each.

1. Name any one example of a stem tuber.

2. How do sea mammals keep themselves warm in water?

3. What name is given to the larva stage of a mosquito?

4. Give any one use of light to people apart from enabling them to see.

5. Identify any one thing that happens to air we breathe in nasal passage.

The diagram below shows a beak of a bird.



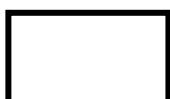
6. What does the bird whose beak is shown above feed on?

7. Mention the immunisable skeletal disease.

8. How can we promote proper food digestion?

9. State the importance of the sun in preserving seeds.

10. In which state of matter does sound travel fastest?



11. Apart from radios, mention any other household appliances that use both electricity and magnet.

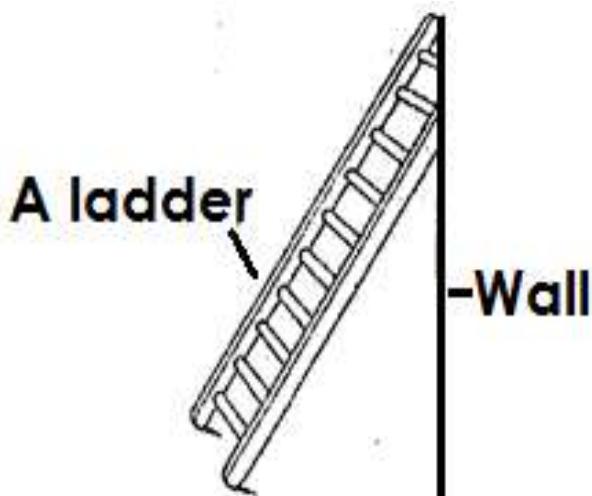
12. How does the human skin control the body temperature?

13. Give any one use of water to plants.

14. Identify one skin disease brought by poor personal hygiene.

15. How does brushing teeth prevent tooth decay?

The diagram below shows a simple machine. Use it to answer questions that follow.



16. Under which group of simple machines do the above belong?

17. Apart from the above example, name any other example of simple machine that is grouped under the same group as the one above.

18. Apart from using bulbs, how else are onions propagated?

19. Write down the immediate help you would give to a person who has been burnt by a hot spoon.

20. What determines the size of the image in a pin hole camera?

21. What state of matter is steam?

22. Name the structures that enable geckoes to move upside down the ceiling.

23. Name the germ that causes polio.

24. State any one disease that affects red blood cells.

25. Which vector spreads typhus fever to people?

26. How are coconut seeds dispersed?

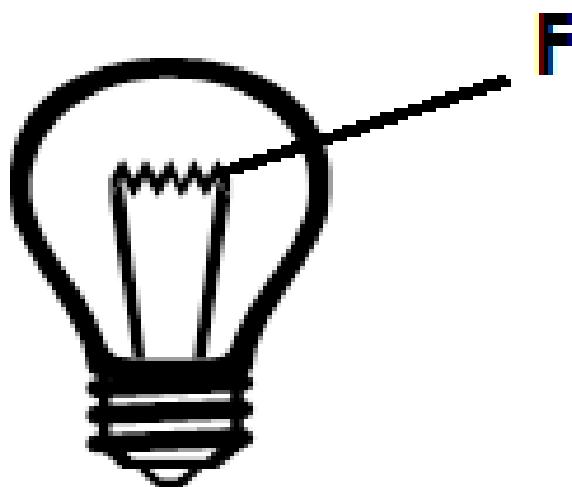
27. In which kind of weather condition do the electric wires sag?

28. Give one example of a vertebrate that uses a shell to protect itself.

29. Name the insect that doesn't lay eggs but produces larva.

30. Which component of air is used by plants to make proteins?

Study the diagram of an electric bulb below and use it to answer question 31.



31. Why is part marked F made of coiled wires?

32. Mention any one example of litter found in poultry House.

33. Of what importance is litter mentioned above in a poultry house?

34. The mass of a stone is 50g. If its volume is 10cc. calculate its density.

35. Of what importance are the bright feathers to a hen?

36. State any one reason why handles of umbrella are made of plastic or rubber.

37. What happens when pollen grains land on the stigma?

38. Name one breed of cattle reared in Uganda.

39. Apart from killing germs, identify any other use of hydrochloric acid during digestion.

40. What scientific name is given to the smallest particles that make up matter?



SECTION B

41. a. What is environmental degradation?

b) Give any three artificial causes of environmental degradation.

(i) _____

(ii) _____

(iii) _____

42. a) What name is given to animals with back bones?

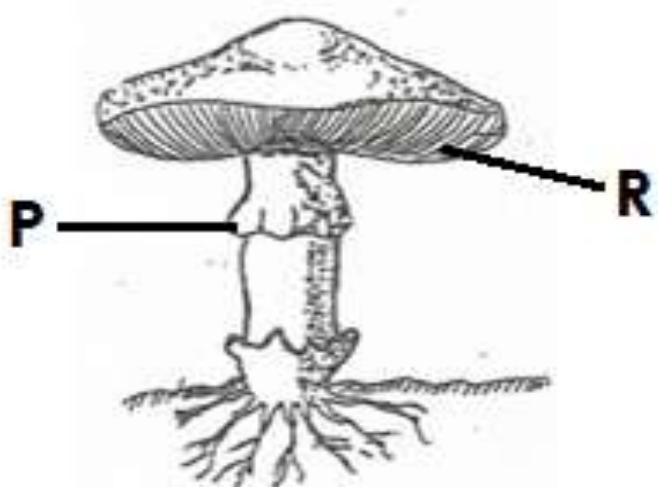
b) Mention any two groups to animals with back bones.

(i) _____

(ii) _____

c) Why is a duck billed platypus referred to as a mammal yet it lays eggs?

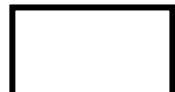
43. The diagram below shows fungi. Use it to answer questions that follow.



a) Name part marked **P**

b) How does the above fungi reproduce?

c) State the function of part marked **R**.



44.a) What specific name is given to the vertical arrangement of soil layers?

b) Write down any three activities that destroy the soil.

(i) _____

(ii) _____

(iii) _____

45.a) Why should an ordinary pit latrine be smoked regularly?

b) Give any two indicators of poor sanitation in a home.

(i) _____

(ii) _____

c) Write **ECOSAN** in full.

46.a) Name the weather instrument used to measure the amount of rainfall received in an area.

b.) Give reason why people are advised to,

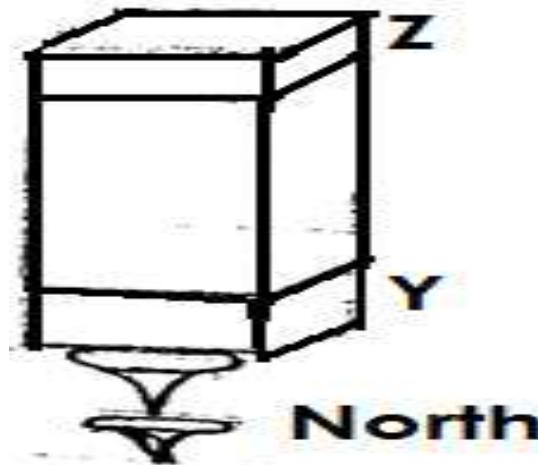
(i) Put the instrument named in (a) above in an open ground when using it.

(ii) Raise the instrument 30cm above the ground when using it

c) What is the importance of a ceilometer as a weather instrument?



47. The diagram below shows a method of marking a magnet. Use it to answer questions that follow.



a) Name the method shown above.

b) What name is given to the magnet made by using the method named in (a) above.

c) Give any one way in which a magnet can be used in a kitchen.

d) Name the pole marked Y.

48. Match the following items in A with those in B correctly

List A

Nuclear electricity

Geothermal electricity

Thermal electricity

Hydro electricity

List B

fast flowing water.

burning fuels.

hot rocks in the earth.

produced from uranium

a) Nuclear electricity _____

b) Geothermal electricity _____

c) Thermal electricity_____

d) Hydro electricity _____

49.a) State two roles played by the ovaries during reproduction.

(i)_____

(ii)_____

b) What name is given to the hormone in male animals that determines the secondary sex characteristics.

c) Give one way of safe guarding against teenage pregnancy among girls below the age of 18.



50.a) Suggest two ways in which people in your locality use heat.

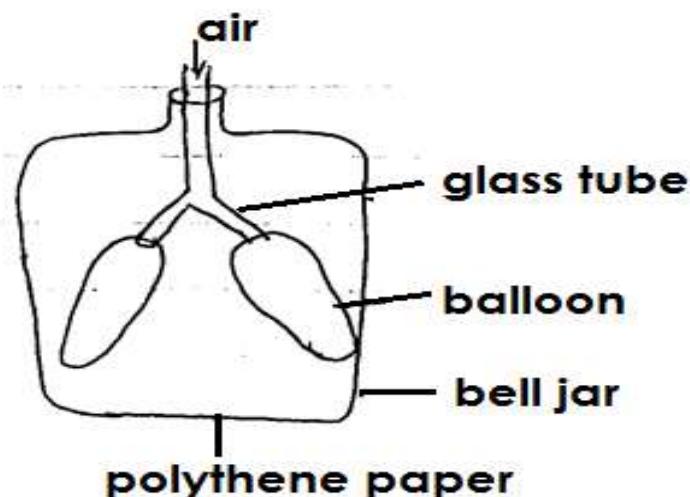
(i)_____

(ii)_____

b) Suggest a reason why the inner walls of a solar drier are painted black.

c) How does heat help to speed up the drying of wet clothes?

51. The diagram below shows the way in which one of the systems of the human body works. Use it to answer the questions that follow.



a) Name the system.

b) What does a balloon represents?

c) What does a polythene paper represent?

d) What would happen to the polythene if air is removed from the balloon?

52.a)How does each of the following animals protect itself against its enemies?

a) Chameleon

b) Porcupine

c) Skunk

d) Scorpion



53. Study the table below and answer the questions that follow.

List A	List B
Hen	Seals
Dove	Whale
Duck	Porpoise
Turkey	Dugongs

a) To which class of animals do those in B belong?

b) In which way are animals in list A similar to those in B

c) Apart from those in list B. Give any other animal that fits in the list.

d) State the characteristic which is common in animals in both list A and list B.

54. Give one example of the following types of joints

(i) Hinge joint

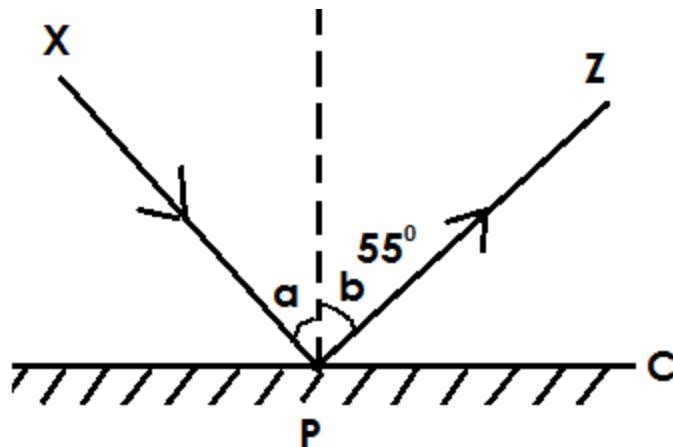
(ii) Ball and socket joint

b) Mention the structure that joins a bone to a bone.

c) Name the longest and strongest bone in human body.



55. The diagram shows a ray of light striking a smooth surface. Study it and use it to answer questions that follow.



a) Name any one example of a material that can be used at material C

b) What is the size of angle a

c) Name the following rays

(i) XP _____

(ii) PZ _____

END



SECTION A (40 MARKS)

Questions 1 to 40 carry 1 mark each

1. Name any one item children can use to clean their teeth.

2. Which structure in the nose helps to trap dust in the nose?

3. What is the function of red blood cells in the body?

4. Of what importance is oxygen during seed germination?

5. Which part of a cow is affected by mastitis?

6. Give the component of the soil that improves on soil fertility.

7. How does the use of the birth control pills promote family planning in a home?

8. The diagram below shows an electric symbol. Name the symbol.



9. Give one advantage of covering food while cooking.

10. Why do people harvest rain water?



11. State one danger of poor sanitation in a community.
-

12. Name one item used in fighting fire outbreak.
-

Below is a type of weather. Use it to answer question 13.



13. How can people protect themselves from such a type of weather?
-

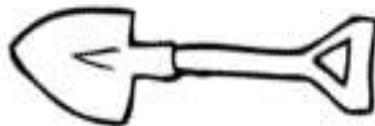
14. State one agricultural practice which can lead to land pollution.
-

15. Give one example of a fossil fuel.
-

16. Write one primary change that happens to girls during adolescence.
-

17. Why is pricking out important in crop growing?
-

Study the diagram below of a simple machine. Use it to answer question 18 and 19



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

19. Use an arrow to show the position of effort on the simple machine above.

20. In which state of matter does sound travel slowest?
-

21. What causes a mirage on hot days?

22. Give the role of rennin in the baby's stomach.

23. Of what use is the proboscis to an insect like a mosquito?

24. Name the part of the heart which has the same function as a kink of a thermometer.

25. Suggest any one use of cats to farmers.

The diagram below shows a beak of a bird.



26. What does the bird whose beak is shown above feed on?

27. State one way in which birds are similar to mammals.

28. How can one change the pitch produced by the panpipes?

29. Which part of the human ear carries sound message to the brain?

30. What magnet is made using electricity?



31. State one way arteries are suited to their function.

32. Give one best method of preventing teenage pregnancies.

33. What excretory organ is responsible for removing bile pigments?

34. State one effect of alcoholism to an individual.

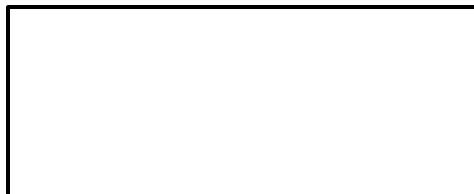
35. Write one factor that can make people abuse drugs.

Study the diagram of cowpeas and answer question 36.



36. Name the method of seed dispersal do cowpeas undergo?

37. In the space below draw a lens for correcting long sight.



38. Apart from trapping food, give any other reason why chameleons change colours.

39. Give one cause of malnutrition at home.

40. Suggest one characteristic of images formed in a pin hole camera.



SECTION B : 60 MARKS

Questions 41 to 55 carry 4 marks each.

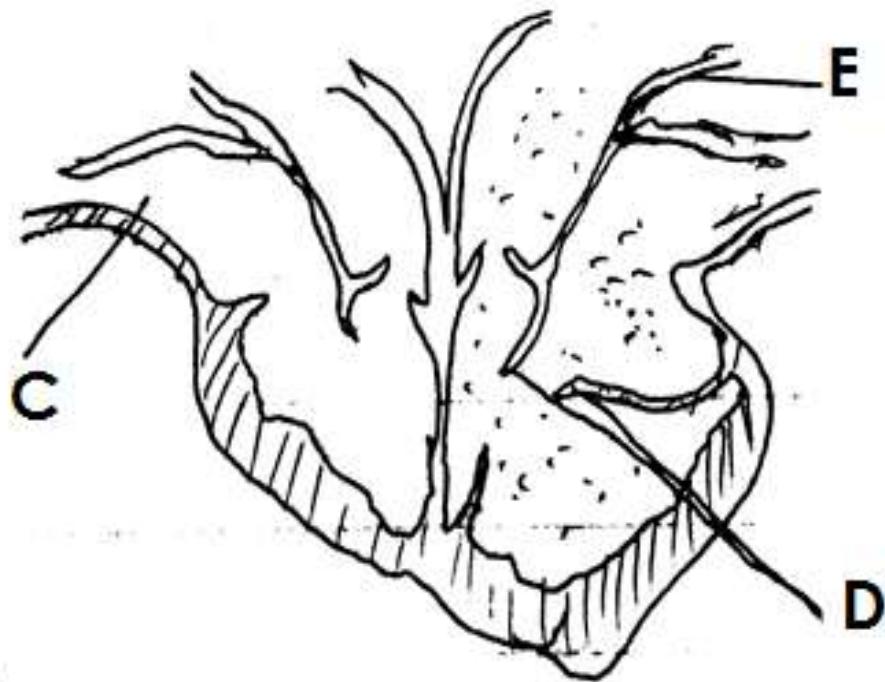
41. a) Write Covid – 19 in full.

-
- b) Mention one sign of Covid -19

-
- c) State any one way of controlling the spread of Covid -19 among ourselves.

-
- d) Give any one vaccine given against Covid-19

42. The diagram below shows a human heart. Study it and answer questions that follow.



- a) Identify parts marked C and E

C_____ E_____

b) What is the role of structure labeled D?

c) Why does blood from the lungs go back to the heart?

43. a) Name two fungal diseases.

(i) _____

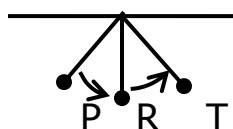
(ii) _____

b) Identify any one fungi used for medical purpose.

c) What do fungi feed on?



44. Study the diagram of a swinging pendulum of Bob and answer the questions that follow.



a) Identify the form of mechanical energy possessed by Bob at R and P

R _____

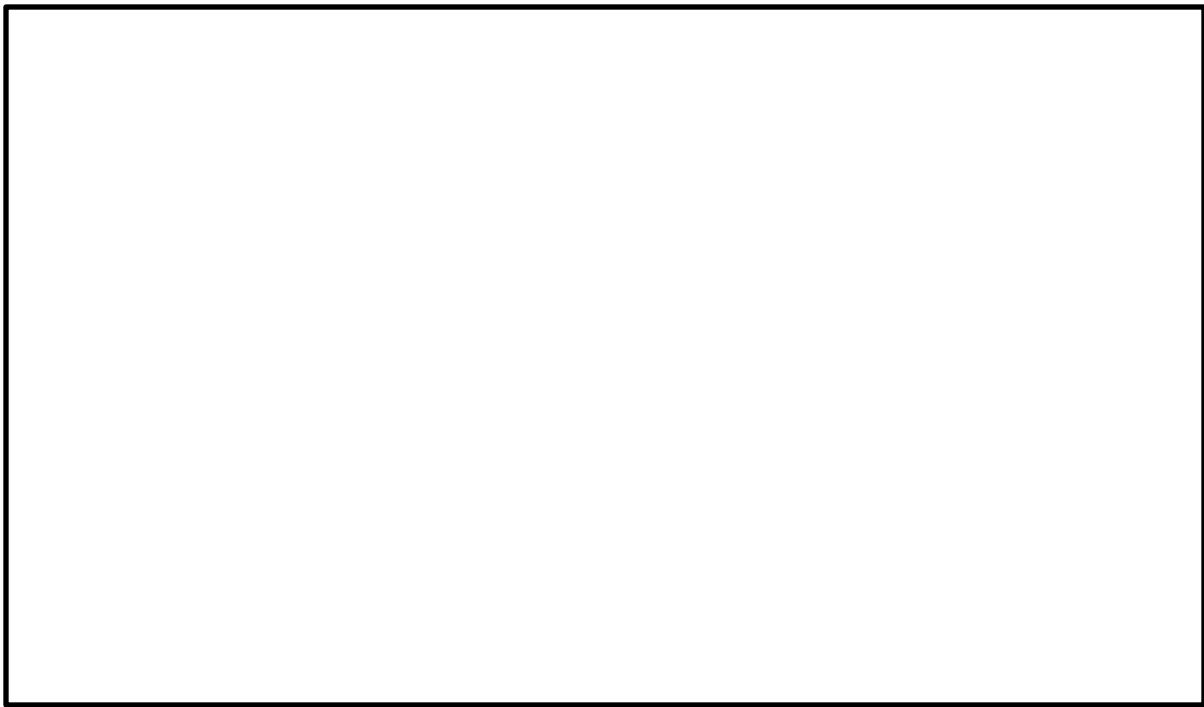
P _____

b) Give any two uses of heat gain to people.

(i) _____

(ii) _____

45. Draw an experiment below to show that soil contains air (4marks)



46. a) Name the non-metallic conductors of electricity in dry cells.

b) Give two advantages of using electricity.

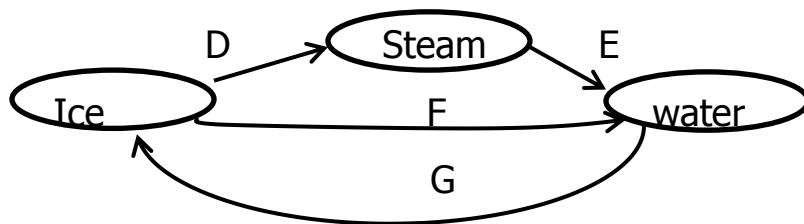
(i) _____

(ii) _____

c) When does a short circuit happen?



47. Use the illustration about states of changes below to answer questions that follow.



a) Name the change of state of matter marked E and G

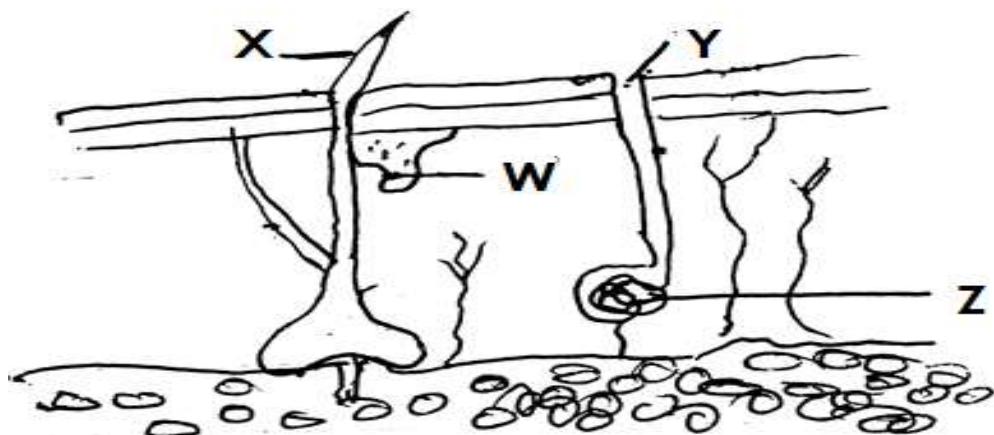
E _____

G _____

b) In what state of matter is ice in the illustration?

c) State one way in which process marked F is important to people

48. The diagram below is of the human skin. Use it to answer questions that follow



a) Name the parts of the skin labeled X and Y

X _____

Y _____

b) How useful is part marked Z in the body?

c) Which childhood immunisable disease affects the above organ?

49. Match the items in list A with those in list B

A

Pneumonia

B

Sabin vaccine

Polio

rotavirus vaccine

Hepatitis

PCV

Rota virus diarrhea

Hep B

Pneumonia _____

Polio _____

Hepatitis _____

Rota virus diarrhea _____



50. a) Mention any two causes of anti-social behaviour.

(i) _____

(ii) _____

(b) In which one way can anti-social behaviour affect the community?

(c) Give the difference between arson and truancy.

51. a) Name one example of pack animal

(b) Which energy resource is got from decomposition of plants and animal remains?

(c) Give two advantages of using the above energy resource when cooking food over wood fuel.

(i) _____

(ii) _____

52. a) What is fever?

(b) Write down any two diseases that may lead to fever.

(i) _____ (ii) _____

(c) Why are mothers encouraged to apply tepid sponging to their babies with malaria?



53. a) What general term refers to the deposition of eroded soil into water bodies?

(b) Give one way in which non-biodegradable materials affect soil.

(c) How can people control the effects of non-biodegradable materials?

i) _____

ii) _____

54. The list below shows organism in the environment.

Dog	Owl	Frog	Bat
-----	-----	------	-----

a) From the above list ,which two organism belong to the same group?

(i) _____ (ii) _____

b) To which group of vertebrates does a frog belong?

c) How is an owl adapted to flying?

55. a) What principle does a periscope work?

(b) Give one use of a periscope to a submariner.

(c) Apart from the periscope, give any other two optical objects.

END



SECTION A 40 Marks

Questions 1 – 40 carry one mark each

1. Why does a bedbug produce a very bad smell when it is touched?
-

2. Give any one way in which flowers are important to a plant.
-

3. Which deficiency disease in children has these sign and symptoms: swollen moon face, brownish hair and pot belly?
-

4. Write one common characteristic which is common in all arachnids?
-

5. Why does sugar disappear when it is mixed in water?
-

6. Which property of air is demonstrated when air is pumped into a ball and it becomes bigger?
-

7. How is the absence of vitamin **D** harmful to our health?
-

8. What is the importance of blood platelets in the body?
-

9. Give one reason why a farmer should keep records of daily weather?
-

10. Why is proper disposal of wastes important in a home?
-

11. Which of the following animals: **fish, frog, lizard, rat** and **a snail** is warm blooded?
-

12. In the space provided below, draw a symbol of a switch



13. How type of energy is possessed by a stone resting on the table.
-

14. When water is heated it changes into steam. What is this process called?
-

15. Name any one example of a perennial crop.
-

16. How does paddock system of grazing cattle control the spread of tick borne diseases?
-

17. Give any one reason why we should wring clothes before drying them.
-

18. Write down any one part which makes the stamen on a flower.
-

19. Give one reason why a farmer should practice thinning of his crops.
-

20. **Vultures, kites and crows** were found feeding on rotting meat. What group of birds are these?
-

21. Give any one special characteristic of the air we breathe in?
-

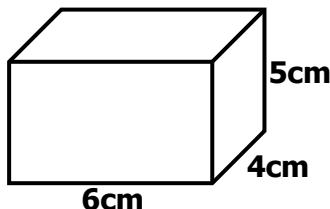
22. What is the function of synovial fluid in the knee joint?
-

23. Give the main cause of fainting.
-

24. Mention one services provided under ante-natal care .
-

25. Which blood vessel transports digested food from the ileum to the liver?
-

26. The diagram below shows a chalk box. Find its **volume**.



Study the animals given in list K and those in M. use it to answer question

K: FISH, BIRD, FROG

M: MAN, WHALE, BAT

27. How are animals in list **K** similar to those in list **M**?
-

28. What is the source of energy in thermal electricity?
-

29. Why is it a bad practice for people to share a house with domestic animals?
-

30. State the use of stretcher when giving First Aid to a victim with a fracture.
-

31. How does a vent help to reduce smell in a VIP latrine?
-

32. Write down one danger of buying drugs from local shops or markets?
-

33. Name one material used to guard against electric shock.
-

34. Draw prop roots in the space provided below.



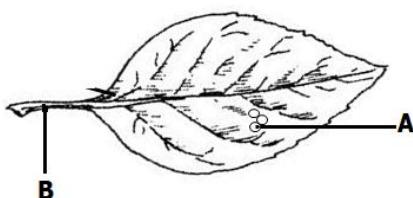
35. Which body system is commonly affected by polio.

36. State one process by which soil is formed.

37. Give one use of an axe at home.

38. What happens to the blood as it passes through the kidneys?

Use the diagram of a leaf below to answer questions 39 and 40.



39. What is part marked **B**?

40. Give one of the functions of the structures marked **A** on a leaf.

SECTION B

41. a) Which bone joins the elbow and shoulder?

b) Give one example of each of the following:

i. Voluntary muscle _____

ii. Involuntary muscle _____

(c) Give one use of muscles in the human body.

42. a) Name one vector which spreads dysentery.

b) write down one sign of dysentery.

c) Give any two ways of controlling and preventing the spread of dysentery.

- i) _____
ii) _____

43. a) After it has rained, earthworms come out of their holes. Why do they come out?

b) Give two reasons why earthworms are very important in the soil.

- i) _____
ii) _____

c) Why does an earthworm die if oil is poured on its body?

44. **Match items in list A with those in B by completing the table below:**

<u>List A</u>	<u>List B</u>
Heart	carbon dioxide
Kidney	sensory organ
Skin	circulation of blood
Lung	urine

(a) Heart _____

(b) Kidney _____

(c) Skin _____

(d) Lung _____

45. a) Name one vaccine which is given to the child at birth.

(b) Why is it important to take children for immunization?

c) Give any two ways in which a child health card is important to the parents.

- i) _____
ii) _____

46. (a) How can you tell without looking at the roots, that a plant is a legume?

(b) Give any two examples of crops which are legumes.

i) _____

ii) _____

(c) How do legumes increase the fertility of the soil?

47. (a) In which part of the plant does photosynthesis mainly take place?

(b) Name two raw materials which enable photosynthesis to take place?

i) _____

ii) _____

(c) State one way in which photosynthesis is useful to animals.

48. Use the list of food stuffs given below and answer the following questions:

BEANS, RICE, CABBAGE, MILK, ORANGES

(a) Give two food stuffs that are a source of proteins.

i) _____

ii) _____

(b) How are cabbages useful in one's diet?

(c) Why would you regard a list of the foods given above a balanced diet?

49. (a) what do we call a mixture of two or more metals?

(b) Give one example of a common mixture of metals.

(c) How does heat move from one point to another in a metal?

(d) Apart from painting, give any other method of preventing a metallic object from rusting.

50. **Use the diagram below to answer questions that follow.**



a) How is the seed in the diagram above dispersed?

(b) Give a reason to support your answer in question (a) above.

(c) State two advantages of seed dispersal.

i) _____

51. a) Give two ways in which sound can be stored.

i) _____

ii) _____

b) Identify two ways in which stored sound can be useful to people.

i) _____

ii) _____

52. a) Mention any two methods of making magnets.

i) _____

ii) _____

(b) Suggest any two ways of destroying a magnet.

i) _____

ii) _____

53. a) State any three functions of blood in human body.

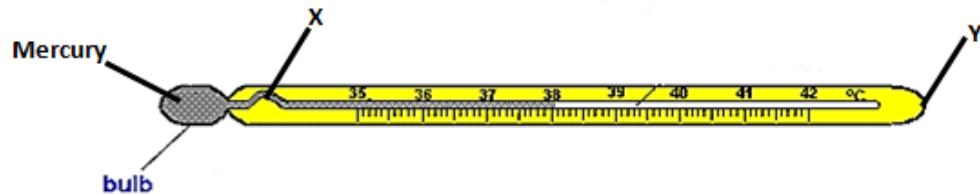
i) _____

ii) _____

iii) _____

b) How can one increase the volume of blood in the body.

54. Below is a diagram of a clinical thermometer. Use it to answer questions that follow:



(a) Name the parts labeled **Y** and **X**.

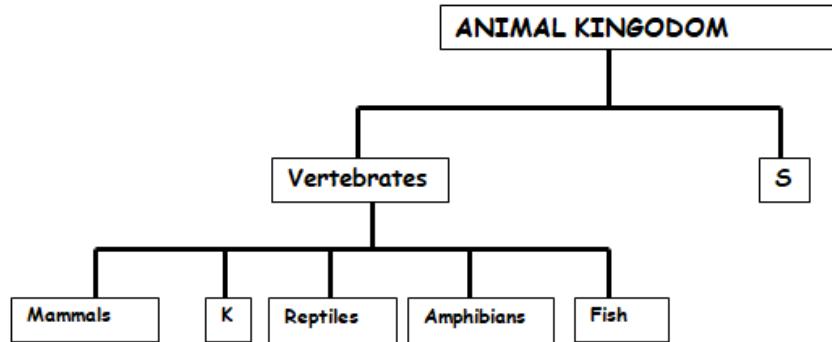
i) Y _____

ii) X _____

(b) Identify the importance of part marked **X**.

(c) Apart from the tongue, mention any one part of the human body where the clinical thermometer can be placed when measuring body temperature.

55. The table below shows the classification of animals. Use it to answer questions that follow.



(a) Name the group of animals marked:

i) S _____

ii) K _____

(b) Give one example of animals in each of the following groups.

i) Molluscs _____

ii) Arachnids _____

SECTION A

1. Name the body organ that controls all body activities.

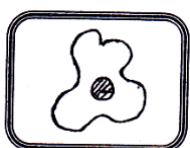
2. How useful are nasal hairs in the nostrils?

3. Besides optimum temperature, name any other condition necessary for germination.

4. Name the structure of the root that protects it from mechanical damage.

5. State any one way in which excretion takes place in human beings.

Below is a blood cell.



6. Name the blood cell above.

7. State any one way in which the above cell carries out its function.

8. Name the sense organ destroyed by leprosy in humans.

9. Give any one digestive gland.

10. State the functional difference between ligaments and tendons.

11. Name one element of weather.

12. How is a clay charcoal stove a means of conserving the environment?

13. At what age is injectable polio vaccine administered?

14. State any one way in which transpiration is important to plants.

15. Explain magnetism.

Below is a seed.



16. How is the above seed dispersed?

17. State the difference between reflection and refraction of light.

18. Mention any one material used to make biogas.

19. Name the disease caused by the deficiency of iron in the human diet.

20. Why is burning of papers into ash regarded as a chemical change?

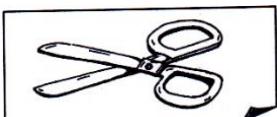
21. Give any one component of a first aid box.

22. What are saprophytes?

23. Of what importance are earth worms to the soil?

-
-
24. How useful is a litter bin in the class room?
-
25. Name the standard unit for force.
-
26. Give the importance of school health parades to the pupils.
-

Below is a simple machine.



27. To which class of levers does it belongs?
-
28. Give a reason for your answer in No. 27 above.
-
29. Convert 149°F to $^{\circ}\text{C}$.
-
30. In the space provided below, draw the conformation of dairy cattle.
-
31. What scientific term is given to the artificial provision of immunity to people?
-
32. How do coniferous trees reproduce?
-
33. Identify any one part of the body where hinge joints are found.
-
34. How different is a VIP latrine from an ordinary pit latrine?

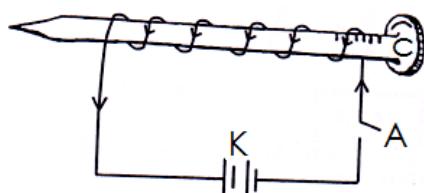
-
-
35. State any one property of sound.
-
-
36. Why is water regarded as a renewable resource?
-
-
37. Name the form of energy stored in dry cells.
-
-
38. How useful is a tongue in digestion?
-
-
39. Explain how mulching controls soil erosion.
-
-
40. Give any one factor considered before setting up an apiary.
-
-

SECTION B

41. (a) What is food? _____
-
- (b) Give any one group of food.
-
- (c) Describe these terms;
- i) Feeding:
-
-
- ii) Nutrition:
-
-
42. (a) Give any one example of a renewable form of energy.
-
- (b) State the difference between renewable and non-renewable forms of energy.
-
-
- (c) Give two examples of fossil fuels.

i) _____ ii) _____

43. **Use the diagram below to answer questions that follow.**



(a) Name part marked C.

(b) What energy change takes place in K when A is closed?

(c) Identify the method used to make the magnet above.

(d) State one use of magnets in our daily life.

44. (a) Where in a green plant does photosynthesis takes place?

(b) Apart from chlorophyll, give any two requirements for photosynthesis.

i) _____

ii) _____

(c) Identify the by-product of photosynthesis.

45. (a) How useful are the kidneys to the human body?

(b) Name the blood vessel that carries blood from the kidney to the vena cava.

(c) How does blood carried to the kidneys differ from that removed from the kidneys?

(d) Give any one substance that is re-absorbed in the medulla of the kidney.

46. **The diagram below is of a pulley system. Study it and answer questions below.**



(a) Name the pulley drawn.

(b) Find the effort used to raise the load.

(c) Why is a pulley regarded as a simple machine?

47. (a) Who is an invalid person?

(b) Why should people in the above condition be given first aid?

(c) Give one quality of a good first aider.

(d) What first aid should be given to a victim of nose bleeding?

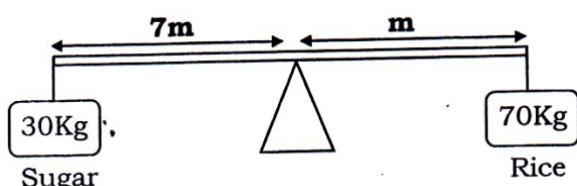
48. (a) Mention any one characteristic of essential drugs.

(b) State any two drugs of dependence.

- i) _____
ii) _____

(c) What term is used to explain too old drugs to be used by patients?

49. **The diagram below shows a simple machine. Use it to answer the questions that follow.**



- (a) Use letter Y to show the position of the fulcrum.
(b) Find the value of m. (2mks)

(c) In which class of levers is a simple machine above?

50. **Match the contents of A to their meaning in B.**

A

Steaming up
Lactometer
Dehorning
Shearing

B

removal of wool from Lincoln long sheep
removal of horn buds from farm animals' heads
high level of feeding to a pregnant cow
An instrument used to measure the specific gravity of milk or amount of water in milk

i) Steaming up _____

ii) Lactometer _____

iii) Dehorning _____

iv) Shearing _____

51. (a) Give one natural process in plants in which

(i) Carbon dioxide is used

(b) What useful product is produced in a (i) above?

(c) Give any other natural process that uses oxygen.

52. (a) Give the end products of these classes of food:

(i) Proteins _____

(ii) Carbohydrates _____

(b) State the importance of the maintaining the proper working of the digestive system.

(c) Give any good practice for the maintaining the proper working of the digestive system. _____

53. (a) Give the meaning of the term soil profile.

(b) Name any two components of soil.

i) _____

ii) _____

(c) Why is loam soil suitable for crop growing?

54. (a) State any one property of magnets.

(b) Mention any two ways in which magnets lose their magnetism.

i) _____

ii) _____

(c) How useful are magnets to pilots?

55. List any four requirements of a home for proper sanitation.

i) _____

ii) _____

iii) _____

iv) _____

SECTION A (40 MARKS)

1. Which substance exists in all the three states of matter?

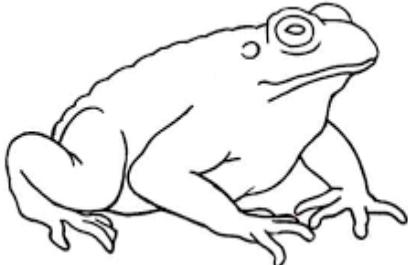
2. Identify the type of weather suitable for winnowing grains.

3. How are ferns different from conifers in terms of reproduction?

4. Name the body organ that interprets messages and helps in memory.

5. Identify the form of energy that enables us to listen to music.

The diagram below is of a frog.



6. State the main reason why the above animal is able to live on both land and water successfully.

7. Why is tepid sponging important to a person with fever?

8. Name the immunisable disease controlled by HepB Vaccine.

9. State any **one** importance of poultry farming as a business.



10. Mention **one** harmful habit put lungs in great danger.

11. Give **one** difference between a VIP latrine and an ordinary pit latrine.

12. Name **one** garden tool farmers use for harvesting millet.

13. During the children X-mas party, children blow air in balloon. Which property of air was demonstrated?

14. Why does the government of Uganda supply free mosquito nets to their citizens?

15. Name **one** non - vertebrate animal that is a molluscs.

16. Give a reason why cattle farmers prefer keeping Fresian cows to Jersey?

17. Name **one** living organism that help in decomposition of organic matter in the environment.

18. Why are pregnant women referred to as vulnerable people?

19. Identify any blood vessel in the human body that carries oxygenated blood.

20. Name the reproduce cell shown below.



21. Identify **one** method used to control rats in our homes.

22. Why is it important for all children to learn swimming skills?

23. Change 10°C to $^{\circ}\text{F}$.

24. How would you tell by merely looking at a child that she/he is dehydrated?

25. Apart from mushroom, give **one** other example of a fungi.

26. What type of change is rusting?

27. Write down one PIASCY message found in the school compound that control the spread of HIV/AIDS.

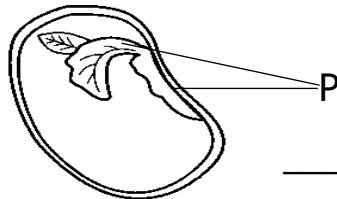
28. What do birds with sharp hooked beaks and curved claws feed on?

29. Why are aeroplanes are not considered as living things?

30. Mention **one** cause of anaemia.

31. State **one** common characteristic in both amphibian and fish.

32. The diagram below shows a bean seed. Name part marked P.



33. State **one** reason why carbon dioxide is used in the preservation of bottled drinks.

34. Write **one** danger of teenage pregnancy.

35. What can happen to a person when oxygen supply to the brain reduces?

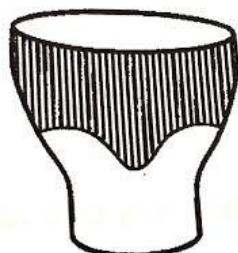
36. When paraffin is mixed with water in a container, it settles on top of the water. Why does this happen?

37. What type of family is composed of parents, sons, daughter and grandparents?

38. How is rinsing an important step in washing clothes?

39. Why is breast feeding encouraged in babies below 6 months?

40. Below is a musical instrument. How does it produce sound?





SECTION B (60 MARKS)

41. a) State **two** characteristics of insects.

- (i) _____
(ii) _____

b) Give **one** example of each of the following insects.

i) Wingless insect

ii) Social insect

42. a) What are non – renewable resources?

b) Give **two** examples of non - renewable resources.

- (i) _____
(ii) _____

c) How does man use water as a resource?

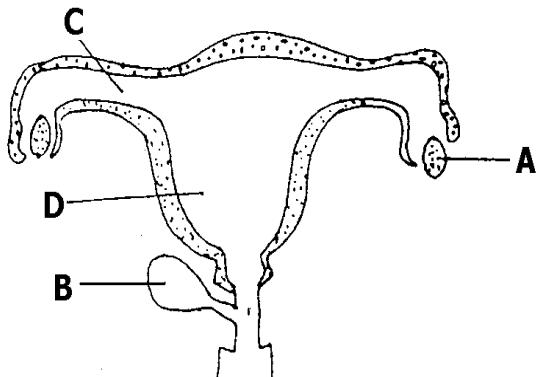
43. a) Name **one** practice that we can do to keep our bodies clean and healthy.

b) Mention any **two** materials that can be used in carrying out the practice you have named in (a) above.

- (i) _____
(ii) _____

c) Give **one** reason why we should keep our body clean.

44. The diagram below shows a female reproductive organ. Use it to answer questions that follow.



a) Name the parts labelled A.

b) What process takes place in part C and D?

- i) C _____
- ii) D _____

c) Write **one** way you can care for the organ above.

45. a) What term refers to essential health care where individuals, families and communities come together to solve their health problems?

b) Mention any **two** activities that can be done by a family to promote health in a home.

- (i) _____
- (ii) _____

c) Give **one** way in which PHC is an important programme in the community.

46. a) How can milk be preserved?

b) Mention any **two** products got from milk.

- (i) _____
- (ii) _____

c) Apart from a cow, give **one** other animal that gives milk.

47. a) Why are frogs vertebrates?

b) Name the class of vertebrate where frogs belong.

c) How is reproduction of frogs similar to that of fish?

d) State **one** way frogs benefit from water.

48. a) What is soil exhaustion?

b) State **one** cause of soil exhaustion.

c) What layer of soil profile is commonly carried away by agents of soil erosion?

d) Mention **one** process that help in soil formation.

49. Match the crops to their means of propagation.

Crops	Propagation
Cassava	Seeds
Irish potatoes	Suckers
Carrots	Stem tubers
Pineapples	Stem cutting

i) Cassava

ii) Irish potatoes

iii) Carrots

iv) Pineapple

50. a) Write STD's in full.

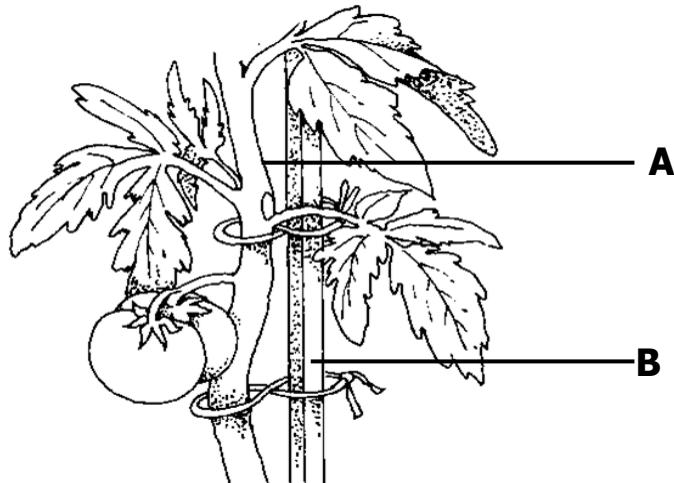
b) Identify the STD that causes;
blindness in babies

madness (insanity)

c) How can a P.6 pupil prevent acquiring STDs?



51. The diagram below shows a staked plant. Use it to answer questions that follow.



a) Name the method of staking shown above.

b) State the function of material labelled with letter **B**.

c) How is staking important to plant marked with letter **A**?

d) State **one** material used in staking plant labelled with letter **A**?

52. a) What term refers to the transitional period between childhood and adulthood?

b) Outline any **two** secondary sex characteristics in both boys and girls adolescent.

(i)

(ii)

c) Mention **one** primary sex characteristic that appears in girls.

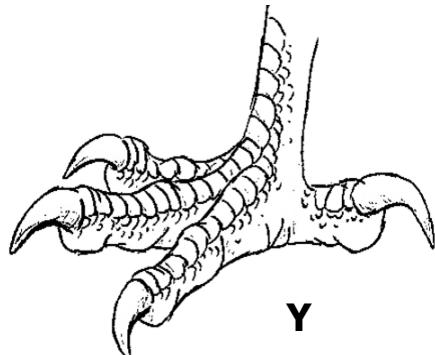
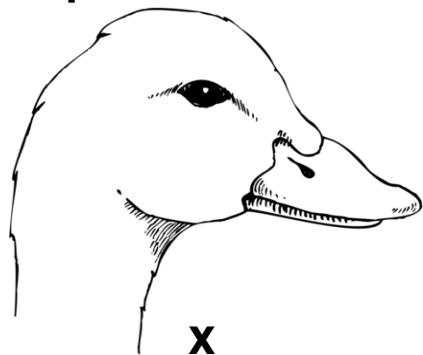
53. a) Give the use of a clinical thermometer to a health worker.

b) Name the liquid commonly used in clinical thermometers.

c) Give a reason why there is a constriction (kink) in the capillary tube of a clinical thermometer.

d) Write any **one** health workers sterilize clinical thermometer.

54. The diagrams below show parts of different birds. Use them to answer questions that follow.



a) Name one bird with structure marked with letter **Y**.

b) Name common habitat for bird **X**.

c) state one common similarity between bird whose part is represented with letter **X** and that of **Y**.

d) How is the bird **X** important in the environment?

55. Below is a list of activities carried out by people in the environment. Use the list to answer questions that follows.

- **Deforestation**

- **Draining swamps**

- **Crop rotation**

- **Afforestation**

a) Which activity is likely to increase the amount of rainfall?

b) Which activity is likely to decrease the amount of rainfall?

c) Which activity is good in controlling pests?

d) Which activity is likely to cause floods in the environment?



SECTION A:

1. Which body organ is used for tasting?

2. What does the term "vice" mean in poultry keeping?

3. How is a seed different from a fruit?

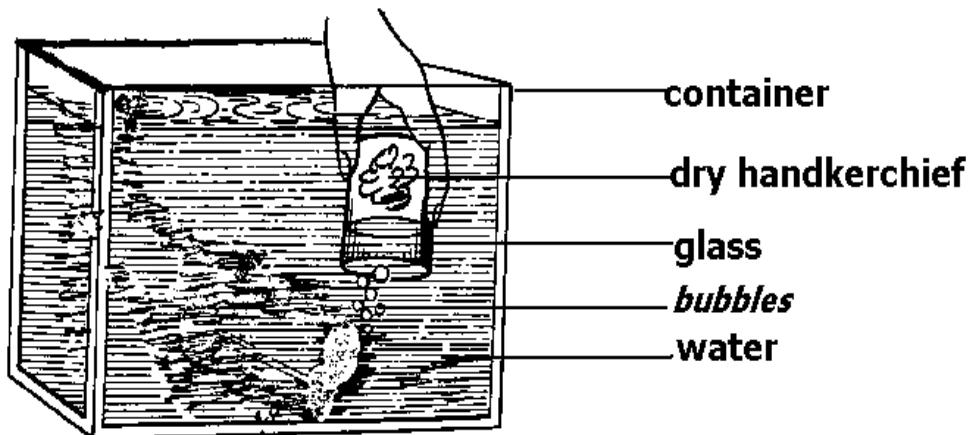
4. Why are some metals galvanized?

5. Mention one characteristic which makes a spider not to be grouped under insects.

6. Why are food taboos important?

7. How are conifers different from other non-flowering plants?

8. What property of air does the diagram illustrate?



9. Give the function of a pinna in a human ear.

10. Explain how plants are used as energy resources in our environment.

11. Name the type of change that takes place when mangoes ripen.

12. Why do some objects weigh less on water than in air?

13. What is the importance of transpiration to plants?

14. Which characteristic of loam soil enables it to trap sunlight energy?

15. State the importance of grit in the digestive system of a bird.

16. Identify one example of a magnetic substance.

17. Name the gas present in tobacco smoke

18. How does diarrhea affect the digestive system?

19. Why are people encouraged not to drink unboiled water?

20. A female fish lays eggs in water. How are these eggs fertilized?

21. Nanku burnt herself with a hot flat iron. What type of injury did she get?

Use the diagram below to answer question 22.



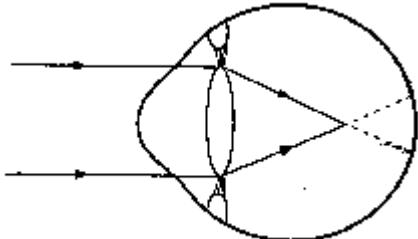
22. What is the importance of the structure marked M in the above blood vessel?

23. Give one difference between a sprain and a strain.

24. In which part of a human body are red blood cells made?

25. Identify the body part an insect uses for balancing during flight.

26. What does the term "resource" mean?

27. Why do we see the flash of lightning before we hear the sound of thunder during rain storms?
-
28. Write down the vector that spreads elephantiasis.
-
29. Convert 100°C to $^{\circ}\text{F}$.
-
30. What eye defect is shown in the diagram below?
- 
-
31. Why is the measles vaccine administered at the age of nine months?
-
32. State one advantage of family planning.
-
33. Identify one psychological characteristic which is common in adolescents.
-
34. Apart from getting sunlight, why else do weak stems climb others
-
35. How does rural electrification help in conserving the environment?
-
36. Name one cold blooded vertebrate that has a body shell.
-
37. Identify one health reason why building industries should be limited.
-
38. Why should wood being burnt into charcoal be covered with soil?
-
39. In the space provided below, draw a compound pinnate leaf.
-
40. Why is food digestion said to begin in the mouth?
-

SECTION B

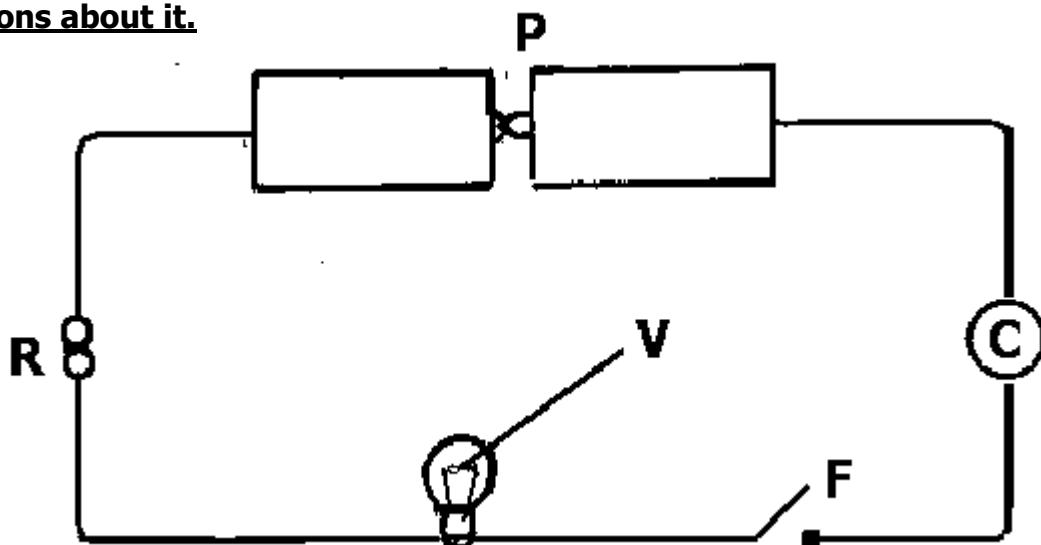
41. (a) What is a solute?.

(b) Give one solute used in making ORS.

(c) Why is water said to be a universal solvent?

(d) What health condition can be treated using ORS?

42. **The diagram below shows an electric circuit. Study it carefully and answer the questions about it.**



- (a) Name part marked F.

(b) Give the function of part marked R.

(c) What form of energy is contained in part marked P?

(d) Why should part marked V fail to produce light when F is closed?

43. **The diagram below shows a musical instrument made by P6 class. Study the diagram and answer the questions about it.**



- (a) How can the instrument be made to produce sound?

(b) Why did the pupils put water in the above musical instrument?

(c) How can the user make the above instrument to:

i) produce high pitch of sound?

ii) produce low pitch of sound?

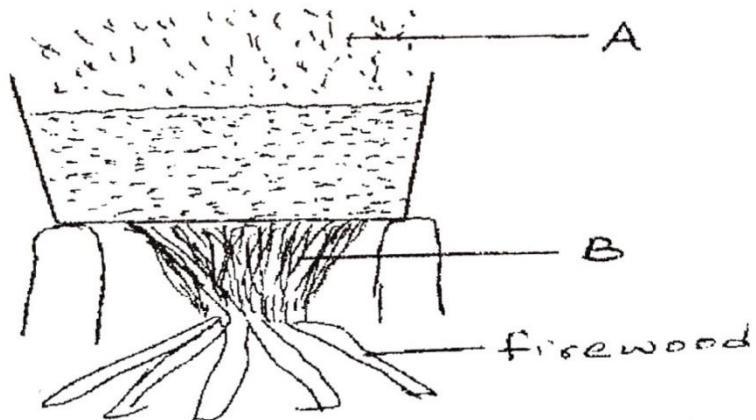
44(a) Give one example of a legume.

(b) How are nitrates important to leguminous plants?

(c) What food value do we get from leguminous plants?

(d) Apart from root nodules, give any other characteristic of leguminous plants.

45. The diagram below illustrates some changes in the environment. Study and use it to answer questions that follow.



a) Name the type of change taking place at:

i) A _____

ii) B _____

b) State any one way type of change A can be helpful in the environment.

c) Give one way the process at B can be harmful to air

46(a) Identify one type of cattle kept in Uganda.

(b) Give the importance of the type of cattle you have named in (a) above.

(c) Identify two advantages of rearing exotic breeds of cattle over local breeds of cattle.

(i) _____

(ii) _____

47(a) Define the following terms:

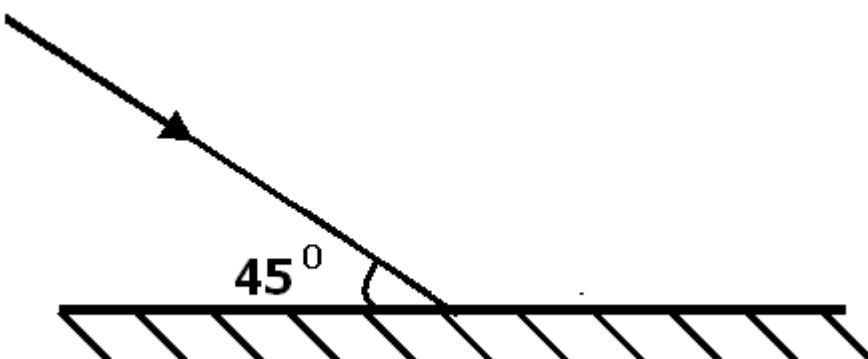
(i) Temperature

(ii) boiling point

(iii) heat

(iv) evaporation

48. **The diagram below shows a light ray being reflected through a plane mirror.**



- (a) Complete the diagram above.
(b) Calculate the value of the angle of reflection.

(c) What type of reflection is shown in the diagram?

(d) Give one characteristic of images formed through a plane mirror.

49(a) What is Primary Health Care?

(b) Give two principles of Primary Health Care.

(i) _____

(ii) _____

(c) Which element of PHC is promoted by wearing masks as a way of controlling COVID-19.

50(a) Write AIDS in full.

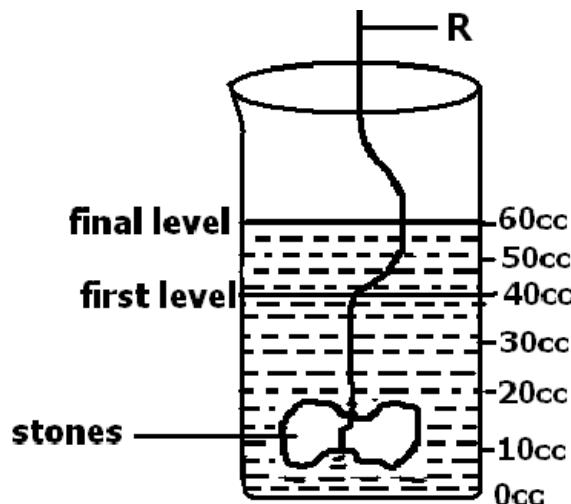
(b) Write down two ways through which AIDS is spread.

(i)

(ii)

(c) What is the best way for a P. 7 pupil to avoid contracting AIDS?

51. **Study the diagram below and answer the questions about**



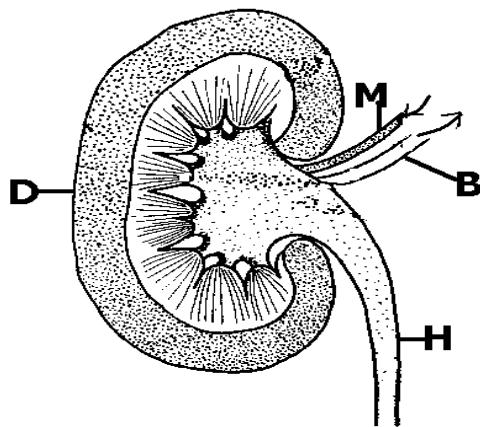
(a) Find the volume of the stone.

(b) Give the use of the use of R in the experiment.

(c) Why do objects weigh less in water than in air?

(d) Name the method used to find the volume of the stone.

52. **Study the diagram of the kidney and answer the questions that follow.**



(a) Name the parts marked H and D.

(i) H: _____

(ii) D: _____

(b) Mention one component reabsorbed by the medulla

(c) Give one disease that affects the organ in the diagram above.

53(a) What is a food chain?

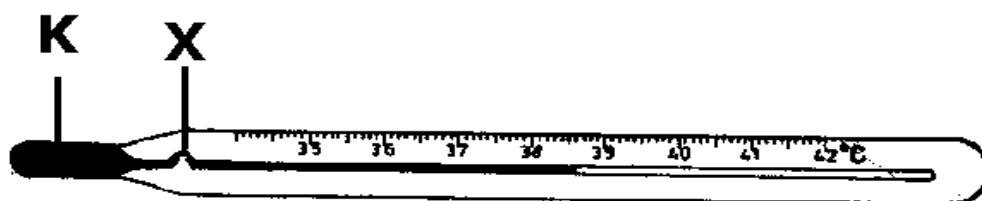
(b) Differentiate between primary consumers and secondary consumers.

(c) Give two ways how plants depend on each other.

(i) _____

(ii) _____

54. **The diagram below shows a clinical thermometer.**



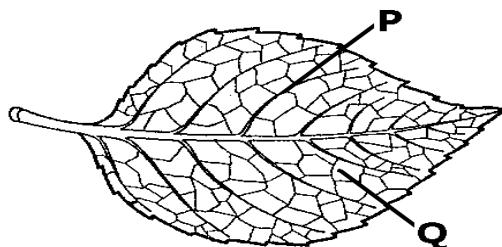
(a) What is the use of the above instrument?

(b) Name liquid marked K.

(c) In a human heart, which part carries out a similar function as part marked X?

(d) Give the importance of part marked X.

55. **Study the diagram below and answer the questions that follow.**



(a) Name part marked P

(b) What important process takes place in part marked Q?

(c) Give two raw materials needed for the process named in (b) above to take place.

- (i) _____
- (ii) _____

SECTION

. (Questions 1 to 40 carry one mark each)

1. Name the type of cloud which is the highest in the sky.
-

2. Apart from light Sussex, name any one other exotic breed of chicken kept for meat.
-

3. Give anyone example of a non renewable energy resource.
-

4. Why is it Importune for a husband and a wife to be treated together if they have got gonorrhea
-

5. Name the type of bees that develops from unfertilized eggs.
-

The diagram below shows a musical instrument. Use it to answer question 6 end 7.



6. How can the pitch of the above musical instrument be varied?
-

7. Name the group of musical instruments to which the above instrument belong.
-

8. Give one way wood fuel can be conserved.
-

9. How do the silvery walls of a thermos flask reduce heat loss?
-

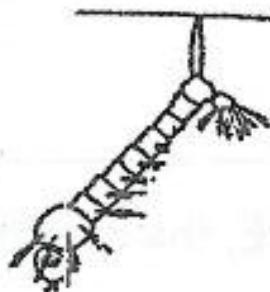
10. Why does a clay made charcoal stove use less charcoal than a metallic one?

11. How does leaching reduce soil fertility?

12. Why does a farmer cut off leaves of a banana sucker before planting?

13. Give anyone way in which electric current produced by a dynamo can be increased.

The diagram below shows a mosquito larva. Use it to answer questions 14 and 15 below



14. Name the mosquito which develops from the above larva.

15. Which disease does the mosquito you have named above transmit to human beings?

16. How do carnivorous animals get energy from plants?

17. Give a reason why farmers sort seeds before planting them.

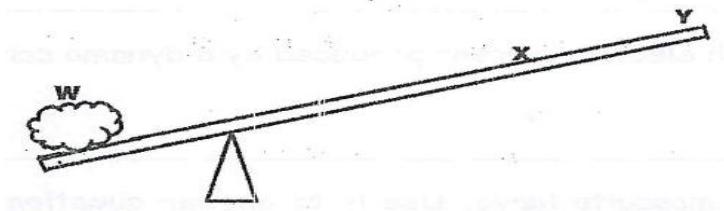
18. State anyone principle of PHC.

19. Give one way in which plastic materials can be re-used at home.

20. What is the importance of gap filling in crop growing?

21. How is the reproduction in a whale different from that of a fish?

The diagram bellow shews a crow bar. Study and use it to answer the question.



22. Which of the two position X and Y requires less effort to overcome the load W?

23. Indicate on the diagram with an arrow E, the direction of effort used to overcome load W

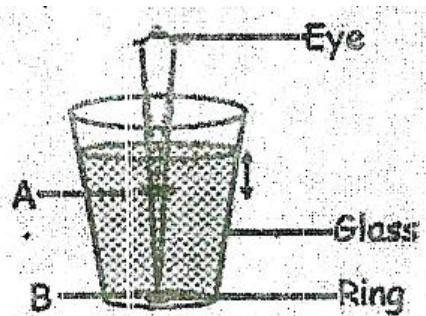
24. Name one disease that affects the stomach because of alcoholism.

25. How is the function of the pulmonary vein different from that of other veins?

26. Why do plane mirror's produce regular' reflection of light?

27. How is the function of the anthers in flowers similar to that of testes in human?

The diagram below shows an object in a glass of water. Study and use it to answer the question.

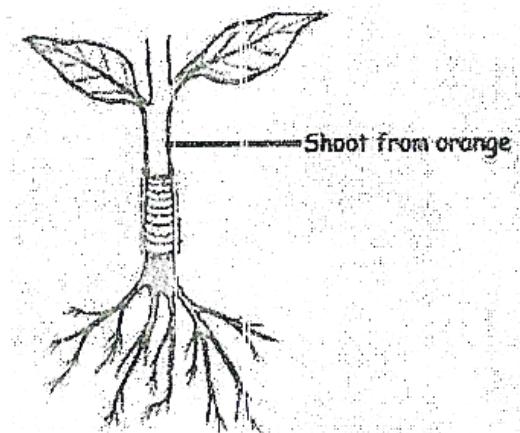


28. Why does the object appear to be at point A yet it is at point B?

29. Why do the lungs expand during breathing in?

30. Which method of harvesting trees allows new shoot to grow from the stump?

The diagram shows a method of plant propagation. Use it to answer the question that follows.



31. Name the method of propagation shown in the diagram above.

32. Why is a fuse made of a thin wire?

33. Which disease is spread to humans by rats?

34. In which state of matter does heat travels slowest?

35. Give one way in which a single fixed pulley is used in a school.

36. Name one other disease caused by fungi to human apart from ring worm.

37. State the method which can be used to obtain salt that has dissolved in water.

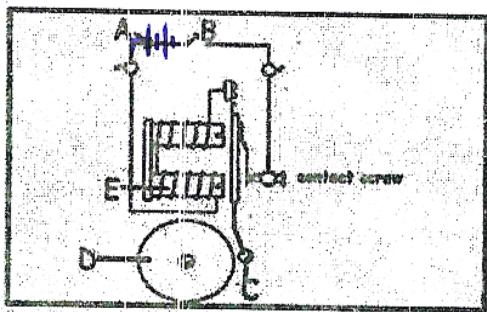
38. State the principle on which a periscope works.

39. Name one root tuber which is propagated by means of seeds.

40. Draw a lens used to correct short sightedness

SECTION B

41. Study the diagram Of an electric bulb below and use it to answer questions that follow.



a) Name part marked A and C.

A _____ C _____

b) What will happen to E when B is dosed?

c) How useful is part D on an electric bell?

42.a) Give two ways in which drug dependency can affect an individual.

(i)

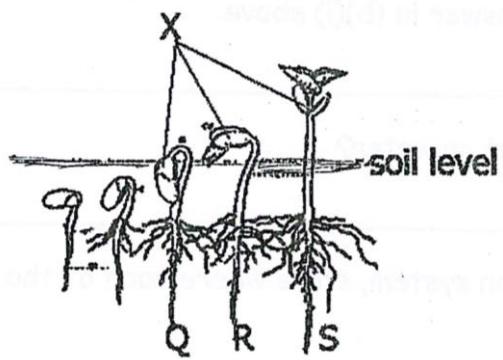
(ii)

b) State two ways in which an individual can avoid drug dependence.

(i)

(ii)

43. In the diagram below Q, R and S show the stages of germination of a seed. Study and use it to answer the questions that follow.



a) Name part marked X. _____

b) How is "the part marked X useful to the seedling at stage R?"

c) Why is the part marked X useless at stage S?

d) What type of germination is shown by the seed?

44a) What causes fainting?

b) State any two conditions that can lead to fainting.

- (i) _____
- (ii) _____

c) Why are the legs of a person who has fainted raised higher than the head when giving first Aid?

45a) Name the force that brings down all objects thrown up.

b) i) When a piece of paper and a rubber are dropped from the same height, which one reaches the ground first.

ii) Give a reason for your answer in (b)(i) above. c)

c) Why do some objects float on water?

46a) In the human reproduction system, state where each of the following processes take place

(i) Implantation

(ii) Production of sperms

(iii) Production of female hormones.

b) Give one use of the placenta to the foetus during pregnancy.

47a) Apart from lack of conditions necessary for germination, give any two other factors that can make a seed fail to germinate.

(i) _____

(ii) _____

b) Write down any two ways farmers can control pests in the garden without using chemicals.

(i) _____

(ii) _____

48a) State the method that can be used to separate.

(i) fruit seeds from juice _____

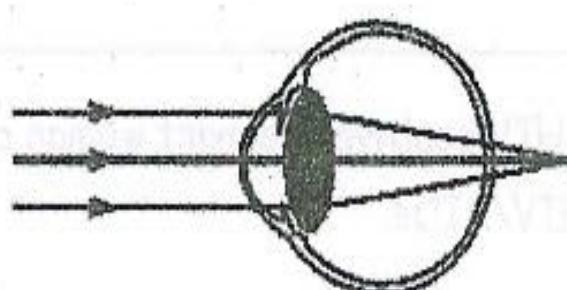
(ii) millet seeds mixed with husks. _____

b) Give the importance of the following steps in cleaning clothes at home.

(i) sorting _____

(ii) soaking _____

49. The diagram below shows the defect of the human eye. Study and use it to answer the questions that follow.

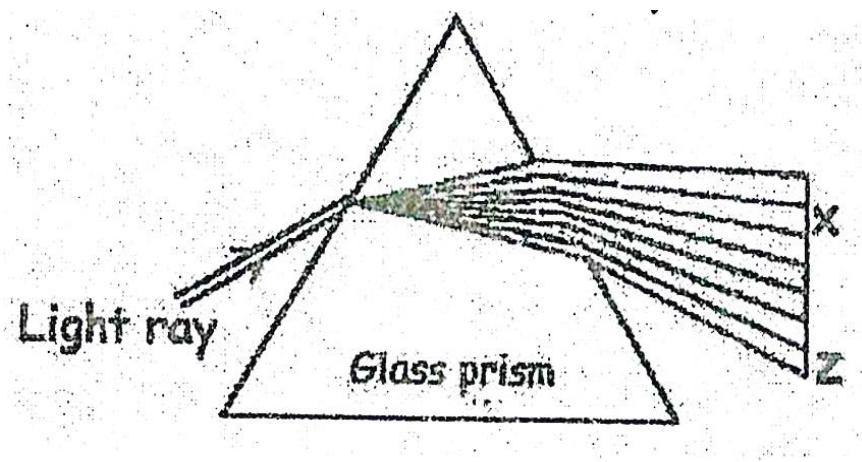


a) Name the eye defect shown above.

b) State the two causes of the eye defect shown above.

c) What type of lens is used to correct the above eye defect?

50. The diagram below shows how light is split into seven colours using a glass prism. Study it and answer the questions that follow.



a) Name the colours X and Z.

X, _____

Z, _____

b) Why do the light rays bend at different angles as they leave the glass prism?

c) Why do we always see the above band of Seven colours in the sky when it is raining lightly?

51a) Give any two possible ways through which a baby can get HIV / AIDS from the mother.

(i) _____

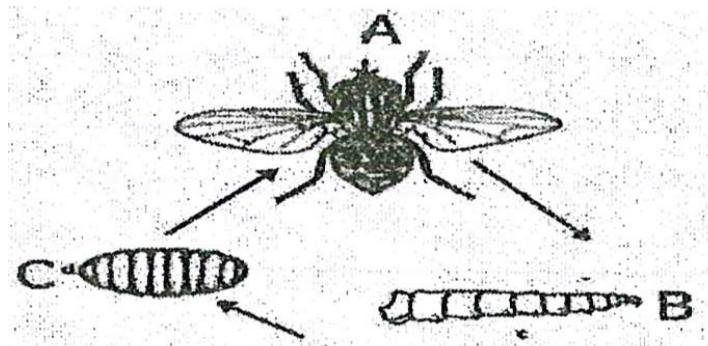
(ii), _____

b) State two ways in which an HIV positive pregnant woman can protect her unborn baby from getting HIV / AIDS.

(i) _____

(ii) _____

52. The diagram below shows the lifecycle of a vector. Study it and answer the questions that follow.



a) Name the vector whose life cycle is shown above.

b) Name the stage marked B

c) What does stage A feed on?

d) How does the vector whose life cycle is shown above spread diseases?

53a) Give any two ways in which Primary Health Care (PHC) is an important program in the community.

(i), _____

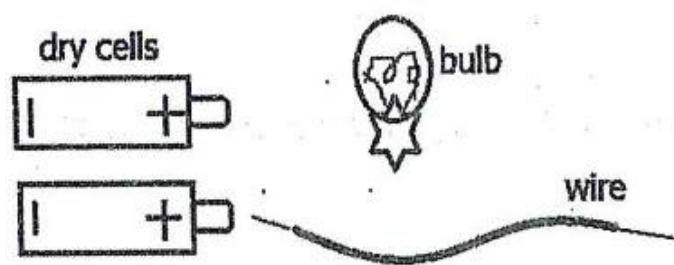
(ii), _____

b) State any two roles of a school health committee.

(i), _____

(ii), _____

54. Arrange the part of an electric circuit below by drawing to show a complete circuit.



55a) Apart from antenatal care, give any two other ways of caring for pregnant women.

- (i) _____
- (ii) _____

b) In which way should pregnant women protect their unborn babies from getting malaria.

c) Why are pregnant women advised not to smoke?

END

SECTION A: 40 MARKS

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

1. Name the body organ that makes vitamin D.

.....

2. What form of mechanical energy is possessed by water boiling in a saucepan put on a burning charcoal stove?

.....

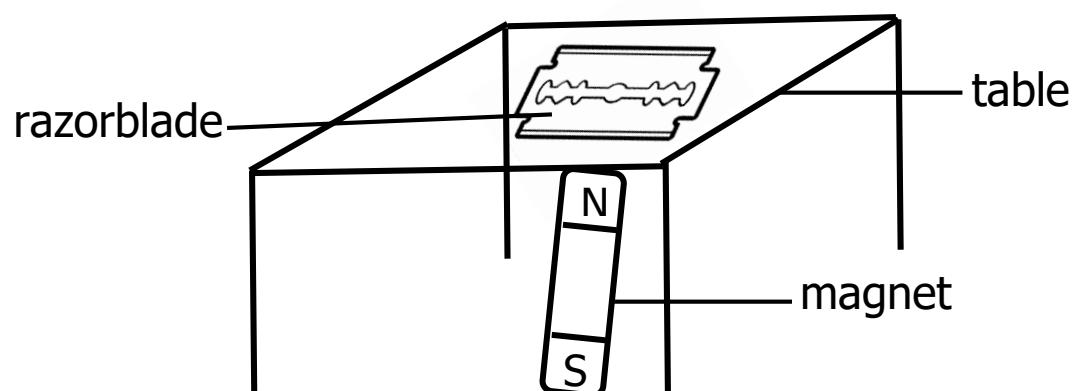
3. Give any **one** way in which nitrogen fixing bacteria benefit from root nodules.

.....

4. In which way does gonorrhea increase the chances of contracting HIV/AIDS to an individual?

.....

The diagram below shows a property of magnets. Study and use it to answer questions **5** and **6**.



5. What property of magnets is shown in the diagram above?

.....

6. Give the importance of the above property of magnets to people.

.....

7. Which disease in goats is controlled by carrying out hoof trimming?

.....

8. State any **one** way in which regular taking of marijuana affects the health of an individual.

.....

9. How is a frog able to live comfortably both in water and on land?

.....

10. Name the physical process that enables the toilet urinal cakes to produce pleasant smell when put in the latrine.

.....



11. In which **one** way are the toothpicks important in the promotion of oral and dental health care?

.....

12. Which chemical process involves changing sugar in juice into alcohol?

.....

13. Name the sheet of muscles that separates the abdominal cavity from the chest cavity.

.....

14. Why is the kink in a clinical thermometer bent?

.....

15. Give any **one** danger of silting to aquatic animals.

.....

16. State any **one** way of controlling diarrhoeal diseases in the community.

.....

17. Why should a heat source be put in a brooder when caring for chicks?

.....

18. Which part of a mushroom has the same function as the anthers of a flower?

.....

19. State any **one** reason why cinema halls are covered with soft porous materials.

.....

20. Give **one** way in which houseflies affect the sense of seeing in human beings.

.....



21. Give any **one** vitamin deficiency disease in humans.

.....

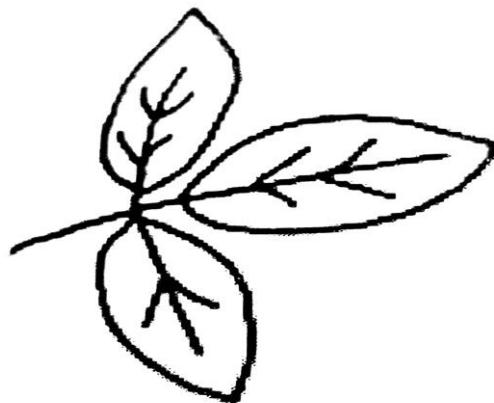
22. State any **one** way in which propolis is useful to honey bees.

.....

23. State any **one** characteristic of a Ventilated Improved Pit latrine (VIP) latrine.

.....

The diagram below shows a compound leaf. Study and use it to answer the questions **24** and **25**.



24. Identify the compound leaf shown in the diagram above.

.....

25. Write down any **one** plant that has the compound leaf shown in the diagram above.

.....

26. State the importance of rennin in the stomach of babies.

.....

27. Name the vaccine given to adolescent girls to protect them against tetanus during menstruation period.

.....

28. Why is a wheelbarrow regarded as a simple machine?

.....

29. In which way does the production of biogas help to promote sanitation in an area?

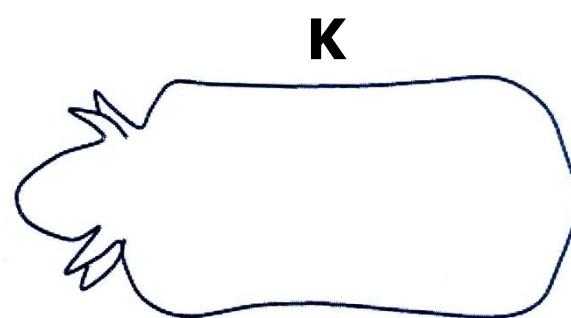
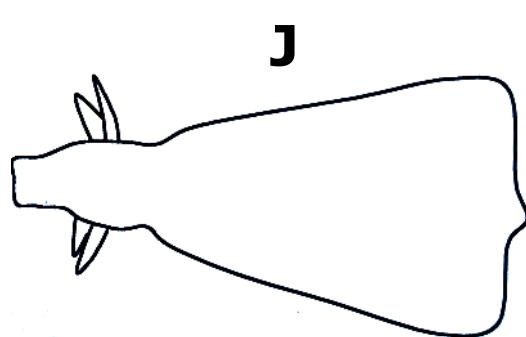
.....

30. Which important activity is carried out by the cortex in the kidney?

.....



The diagram below shows shapes of types of cattle. Use it to answer questions **31** and **32**.



31. What type of cattle has the shape marked with letter **K**?

.....

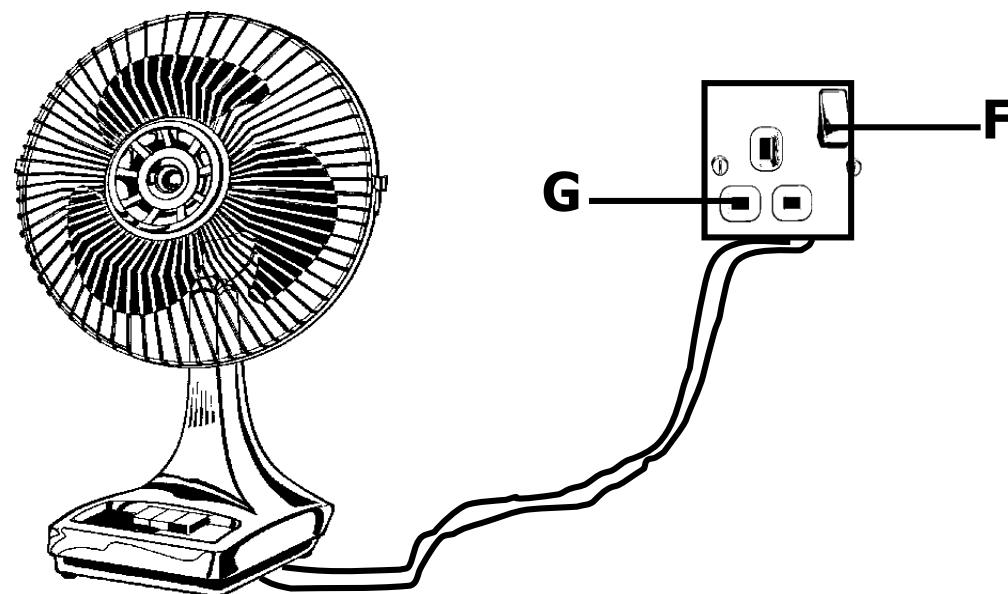
32. Name any **one** breed of cattle that has the shape marked with letter **J**.

.....

33. How do crop farmers reduce the rate of transpiration when planting banana suckers?

.....

The diagram below shows an electronic device. Use it to answer questions **34** and **35**.



34. Name the part marked **G**.

.....

35. What energy change takes place in the electronic device above when part **P** is turned on ?

.....

36. State any **one** way of controlling snuffles in rabbits.

.....

37. Name the alloy used to fill holes in the tooth.

.....

38. What property of air supports the weight of car tyres on the ground?

.....

39. What is the importance of sugar when preparing Oral Rehydration Solution (ORS)?

.....

40. In which way is the function of root hairs different from that of a root cap on a root system?

.....



SECTION B: 60 MARKS

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

41. a) State the importance of each of the following components in the water cycle.

(i) the sun

(ii) plants

- b) Mention any **one** physical process involved in a water cycle.

.....

- c) Give any **one** disadvantage of the element of weather formed from water cycle to the environment.

.....

42. a) Write down any **two** causes of soil erosion in hilly areas.

(i)

(ii)

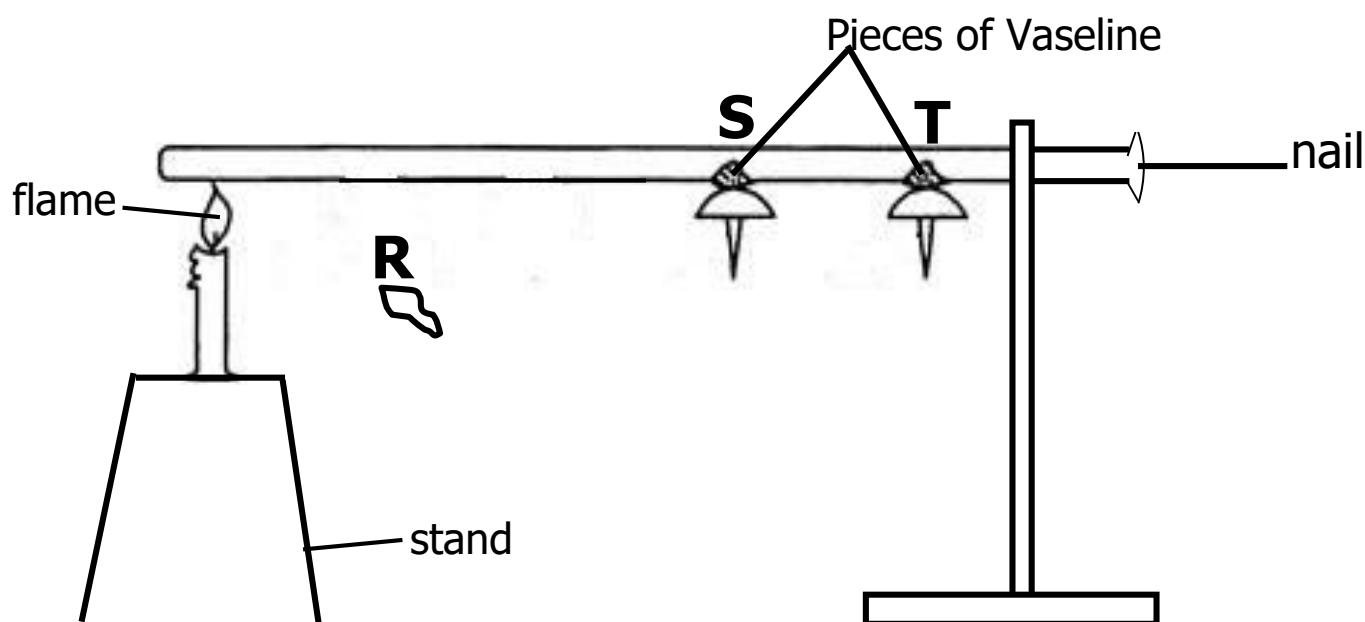
- b) How does terracing help to control soil erosion in hilly areas?

.....

- c) Apart from terracing, state any **one** other way of controlling soil erosion in hilly areas.

.....

43. The diagram below shows an experiment carried out about heat transfer. Study and use it to answer the questions that follow.



- a) Which method of heat transfer is demonstrated using the above experiment?

.....

- b) Why does the piece of Vaseline marked **R** fall first as shown in the experiment above?

.....

- c) What is the importance of using pieces of Vaseline when carrying out the above experiment?

.....

- d) State any **one** effect of heat on the pieces of Vaseline used in the experiment above.

.....



44. a) Name the source of energy for each of the following energy resources.

(i) hydroelectricity

(ii) thermal energy

b) State any **one** advantage of using hydroelectricity over thermal energy.

.....

c) Give any **one** reason why solar energy is used by few people in the community.

.....

45. a) Which group of birds feed on leftover flesh (carrion)?

.....

b) Give any **two** examples of birds that belong to the above group.

(i)

(ii)

c) State any **one** way in which the group of birds given in (a) above are important in the environment.

.....

46. The table below shows the pieces of information carried out by a poultry farmer. Study and use it to answer the questions that follow.

Month	September	Breeds of chicken	exotic
Age of the flock	4 months	Number of chicken	100 birds

Number of eggs					
Day	Morning	Afternoon	Broken	Good	Total
Monday	50	40	10	80	90
Tuesday	55	46	none	111	111

- a) Identify the pieces of information shown in the table above.

.....

- b) State any **one** reason why the above pieces of information is important to a poultry farmer.

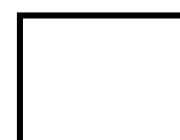
.....

- c) Give any **one** factor that might have caused the drop in the number of eggs collected on Monday.

.....

- d) What type of chicken is kept by the poultry farmer according to the above information?

.....



47. a) Name any **two** things that attract insects to pollinate flowers.

(i)

(ii).....

b) State any **two** differences between insect pollinated flowers and wind pollinated flowers.

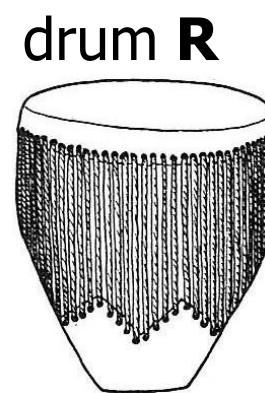
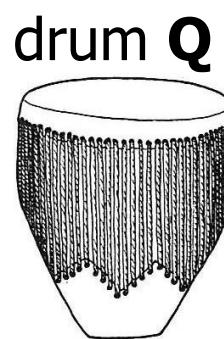
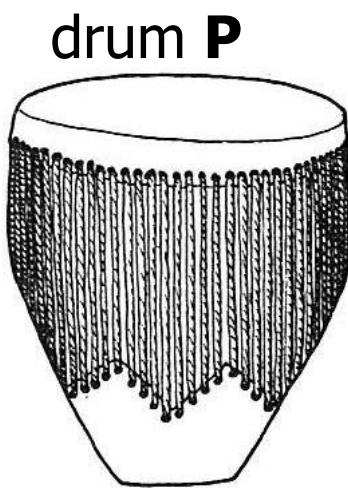
(i)

.....

(ii)

.....

48. The diagram shows three drums of different sizes. Study and use it to answer the questions that follow.



a) Identify the drum that will produce sound of the highest pitch.

.....

b) Why will the drum identified in (a) above produce sound of the highest pitch?

.....

c) State any **one** factor that determines the pitch of sound produced by the above drums.

.....

- d) Name the group of musical instruments in which you would put the above drums.

.....

49. a) Give any **one** way in which joints are adapted to friction free movement.

.....

- b) State any **two** importance of having regular physical exercises to the body.

(i)

(ii)

- c) Apart from having regular physical exercises, give any **one** other health practice that helps to keep the muscular skeletal system in a good working condition.

.....



50. a) Mention any **two** foreign bodies that can enter into the eye.

(i)

(ii)

- b) Give any **one** first aid you can give to a person who has foreign bodies in the eye.

.....

- c) Why is it not advisable to give food or drinks to a convulsing victim?

.....

51. The table below shows some common crop growing practices, materials used and their importance in the garden. Study and complete it correctly.

Crop growing practice	Material used	Importance in the garden
.....	hand hoe	Reduces competition for nutrients between crops and weeds.
Mulching	dry grass
.....	forked hoe	Makes the surfaces of the soil levelled.
pruning	Reduces the weight of the plant.

52. a) Name the eye defect which is corrected using a convex lens.

.....

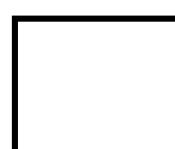
- b) Give any **two** causes of the eye defect named in (a) above.

(i)

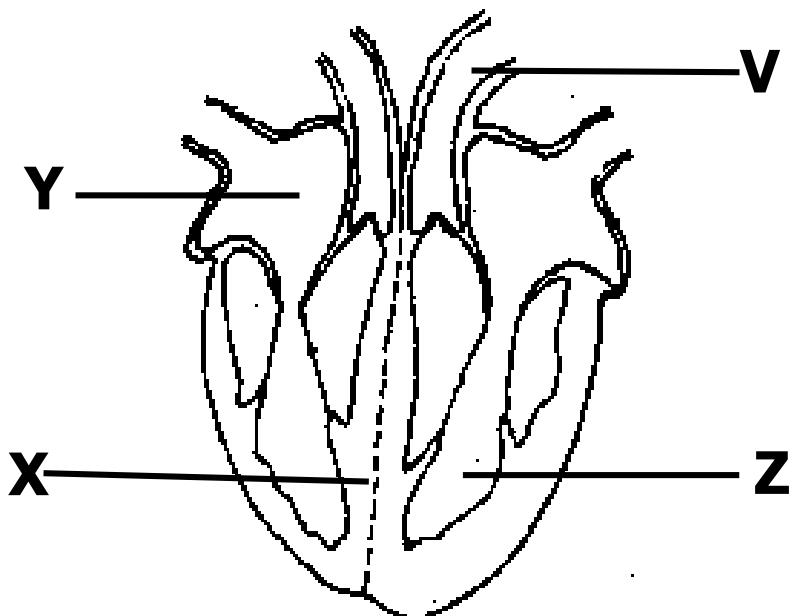
(ii)

- c) Why is the convex lens used to correct the eye defect named in (a) above?

.....



53. The diagram below shows the human heart. Study and use it to answer the questions that follow.



a) Name the parts marked **V** and **Y**.

(i)

(ii)

b) State the function of part marked **X** in the human heart.

.....

c) How is part marked **Z** able to pump blood at a higher pressure?

.....

54. a) State the function of a reflector in a torch.

.....

b) Why doesn't a dry cell powered torch have the fuse?

.....

c) Give any **two** factors that may make a torch fail to produce light when the switch is turned on.

(i)

(ii)

- 55.** The diagram below shows a medical document used in the promotion of the elements of one of the elements of Primary Health Care. Study and use it to answer the questions that follow.

District _____	Child's registration No: _____
Health Unit _____	_____
Child's name: _____	Birth weight (Kg): _____
Sex _____	Date of birth _____
	Day _____ date _____ year _____
Mother's name: _____	Mother's occupation: _____
Father's name: _____	Father's occupation: _____
Where the child lives: _____	
Sub-county/ Division: _____	
Parish: _____	
LC1: _____	

- a) Identify the medical document shown in the diagram above.

.....

- b) State any **one** way in which the medical document above is important to a health worker.

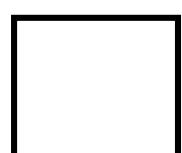
.....

- c) Name any **one** vaccine that the body receives first basing on the above medical document.

.....

- d) Which element of Primary Health Care involves the use of the above medical document?

.....



SECTION A: 40 MARKS

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

1. Name the form of energy that enables cyclists to avoid obstacles at night.

.....

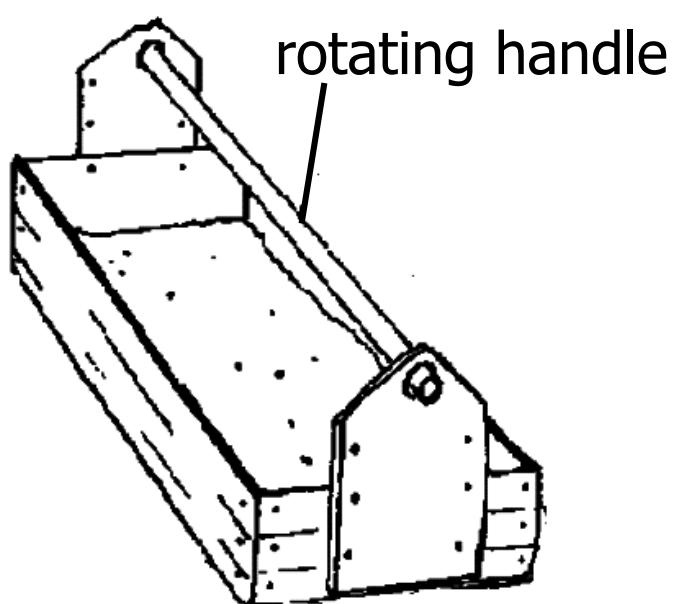
2. Write down any **one** milk product you know.

.....

3. Give any **one** cause of short circuit.

.....

The diagram below shows an equipment used on a poultry farm.
Use it to answer questions **4** and **5**.



4. How useful is the equipment to a poultry farmer?

.....

5. Why is the equipment made of rotating handle?

.....

6. Mention any **one** factor considered when classifying living things.

.....

7. Mention **one** danger of sharing drugs among patients.

.....

8. How is the cause of polio similar to that of measles?

.....

.....

9. Give any **one** effect of food taboos to the community.

.....

10. Why are gaps left between rails during the construction of the railway?

.....



11. Why is cow called a ruminant animal?

.....

12. State **one** importance of agro forestry.

.....

13. State any **one** cause of eye defects.

.....

14. Which is the dangerous stage of a housefly?

.....

15. Mention any **one** proper way of maintaining good working condition of the kidney.

.....

16. How is a gizzard able to carry out the function of grinding food during digestion?

.....

17. Give the importance of a stretcher in giving first aid.

.....

18. Mention one accident that can happen at school.

.....

19. Name the gas used in fire extinguishers.

.....

20. State the process by which heat moves through solids.

.....

21. State **one** way how amphibians are useful in the environment

.....

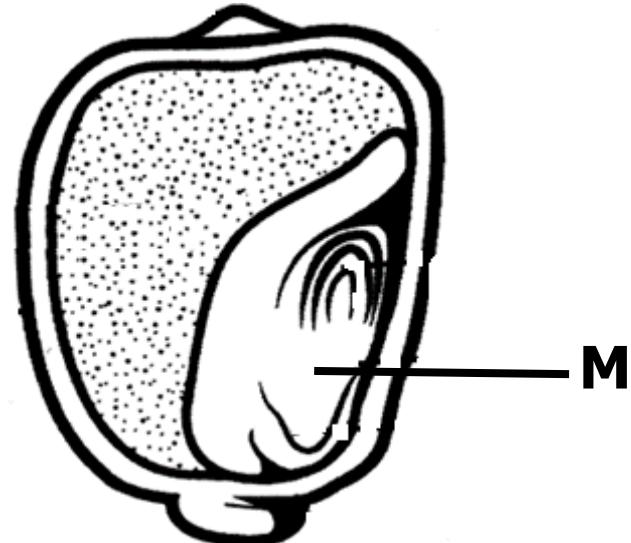
22. Why is it not advisable to put on a black coat on a very sunny day?

.....

23. Mention **one** good health habit for the teeth.
-

24. Give any **one** way of caring for people with special needs
-

Study the diagram of a maize grain below and use it to answer question **25**.



25. Give the function of part **M**.
-

26. How do hairy bodies of a housefly able to carry germs that spread disease?
-

27. Why should young boys avoid drug abuse?
-

28. Mention **one** importance of ossicles during the process of hearing.
-

29. Give **one** way of controlling tape worm infestation in humans.

.....

30. Give **one** reason why young girls should avoid teenage pregnancy.

.....



31. How does rural electrification conserve the environment?

.....

32. State the unit for measuring rainfall.

.....

33. Give **one** reason why grease is applied in all moving parts of a machine.

.....

34. Identify the type of change that takes place when fruits ripen.

.....

35. State **one** condition under which a mother may be stopped from breast feeding the baby.

.....

36. What is evaporation?

.....

.....

37. Mention the structure of a VIP latrine that traps and kills flies.

.....

38. State the difference between pitch and volume in sound.

.....

.....

39. Give the function of valves in blood circulation.

.....

Study the picture of cow peas below and answer question **40**.



40. Which method of seed dispersal do cowpeas undergo?

.....



SECTION B: 60 MARKS

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

41. (a) What are vertebrates?

.....
.....

- (b) State any **two** types of vertebrates.

(i)

(ii)

- (c) Give any **one** characteristic of vertebrates

.....

42. (a) Write any **one** essential drug that can be taken to cure malaria.

.....

- (b) Give any **two** characteristics of essential drugs.

(i)

(ii)

- (c) Why should medical drugs be well prescribed before they are given to patients

.....
.....

43. (a) Mention the programme which teaches pupils about HIV/AIDS in schools.

.....

- (b) Write any **two** messages passed onto the pupils during the programme mentioned in (a) above.

(i)

(ii)

- (c) Why does the above programme encourage pupils to abstain from sex?

.....



44. (a) Name the set of teeth found in babies.

.....

- (b) Which type of teeth is missing in the set you have mentioned in (a) above?

.....

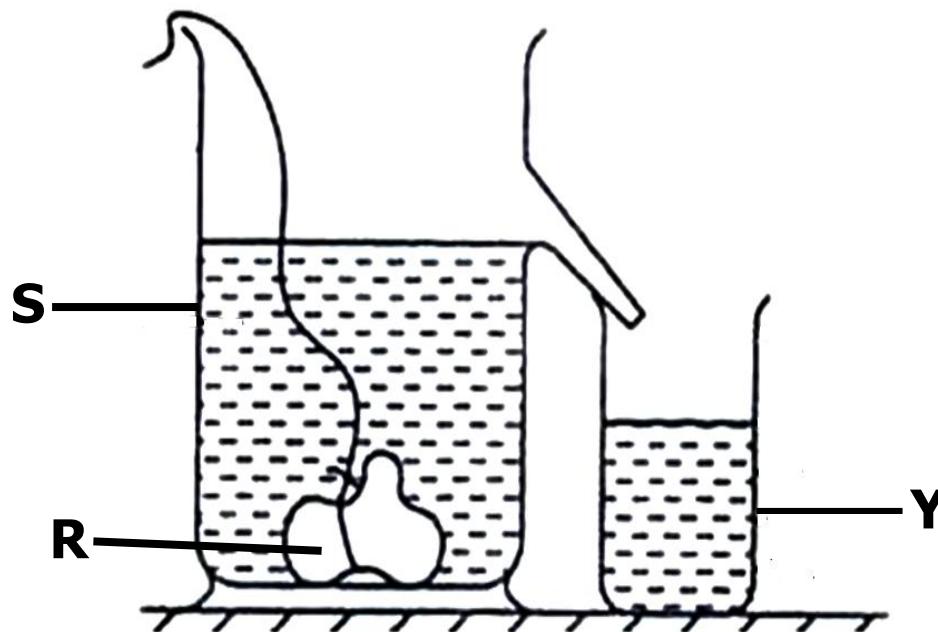
- (c) Give a reason why babies should be given soft food.

.....

- (d) State **one** way mothers can promote the strong growth of teeth in their children.

.....

45. The diagram below shows a method of finding volume. Use it to answer the questions that follow.



- (a) Name the container marked **S**.

.....

- (b) Identify the type of object labeled **R**.

.....

- (c) What does the water in container in **Y** equal to?

.....

- (d) Give a reason for your answer in (c) above.

.....

46. (a) What is an echo?

.....

.....

- (b) In which one way are echoes dangerous to people?

.....

- (c) Kabanda was standing 16.5 metres away from his mother who called him by hitting the drum. How long did it take Kabanda to hear the drum?
-

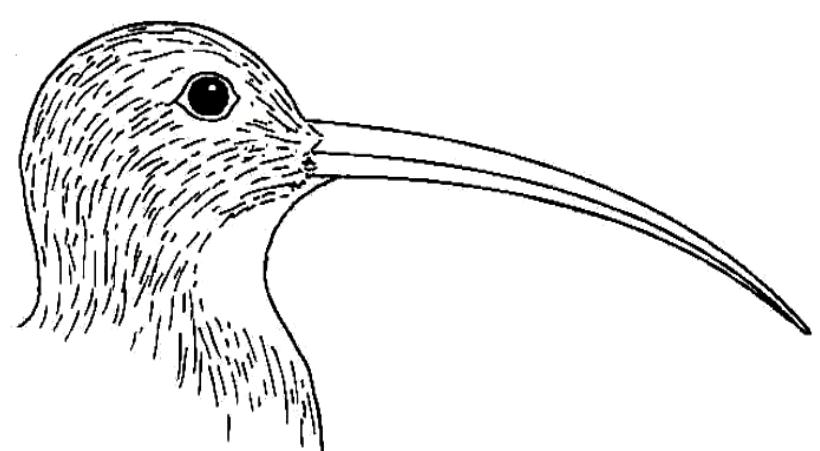
- 47 . Study the beaks of birds below and answer questions that follow.

Beak X



Sharp-hooked beak

Beak Y



Long-slender beak

- (a) How is each of the following beak adapted to its function?

(i) Beak X

.....

(ii) Beak Y

.....

- (b) What type of food do birds with such beaks feed on?

(i) Beak X

(ii) Beak Y

48. (a) State **one** way plants depend on animals.

.....

(b) How do animals depend on each other?

.....

(c) Give **one** way animals depend on plants.

.....

(d) Give **one** way land as a resource can be conserved.

.....

49. Use the food chain below to answer the questions that follow.



(a) Identify the following organisms in the above food chain.

(i) Producer

(ii) Primary consumer

(b) What do the arrows represent in the above food chain?

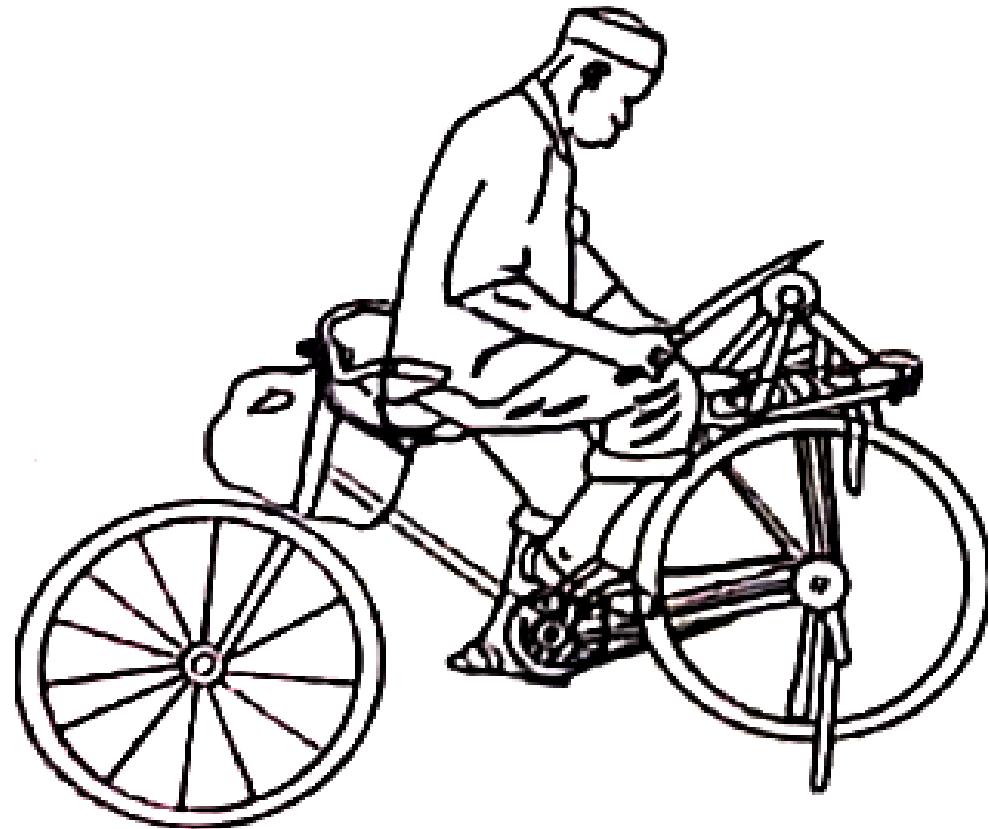
.....

(c) What role do bacteria play in the food chain?

.....



50. The picture below is of Mzee Zadde sharpening a knife. Use it to answer the questions that follow.



(a) Which force enables Mzee Zadde to sharpen the knife?

.....

(b) Give **one** way Mzee Zadde can reduce on the force named in (a) above on the knife.

.....

(c) Find the work done by a man who pushed a wheelbarrow using force of 80kg through a distance of 9 metres.

51. How are the following practices important on the animal farm?

- (i) Dipping
-
- (ii) Deworming
-
- (iii) Dehorning
-
- (iv) Castration
-

52. Complete the table correctly

Disease	Vaccine	Age
.....	BCG	At birth
Tetanus	At 3 months
Measles	Measles vaccine
Polio	At birth



53. (a) State the end product of each of the following

- (i) Proteins
- (ii) Carbohydrates
- (iii) Fats

(b) How is the liver important during the digestion of food in the human body?

.....

54. (a) What is pollination?

.....

.....

(b) Mention any **two** characteristics of insect pollinated followers.

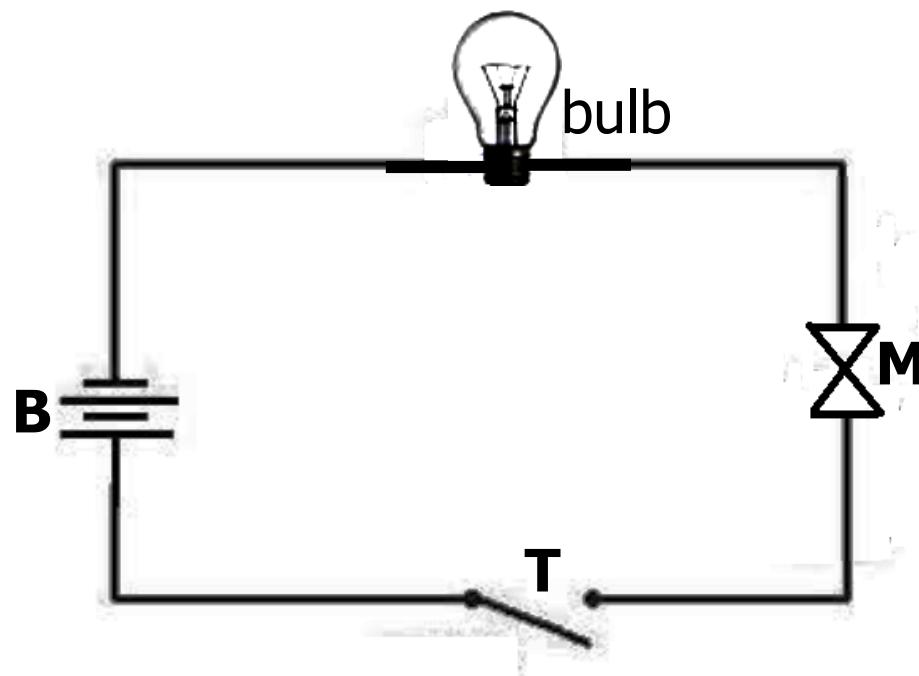
(i)

(ii)

(c) Give **one** plant which undergoes cross pollination.

.....

55. The diagram below shows a simple circuit. Study it carefully and use it to answer questions that follow.



(a) Name the part marked **M**.

.....

(b) State the function of part marked **B**.

.....

(c) What energy change takes place in an electric bulb when part marked **T** is closed?

.....

(d) Use an arrow to show the flow of electrons in the diagram above.



SECTION A: 40 MARKS

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

1. Name the body organ used for reasoning.

.....

2. Which disease vector spreads dengue fever to people?

.....

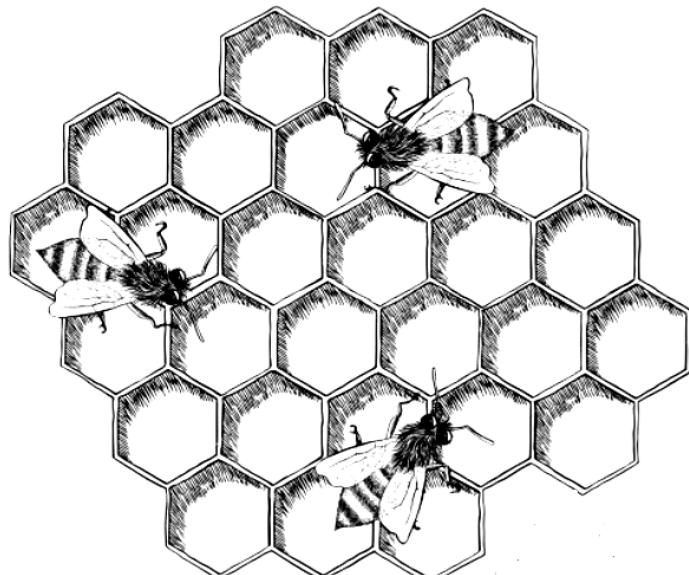
3. State any **one** use of PIASCY messages in preventing venereal diseases to school children.

.....

4. Give any **one** exotic breed of chicken kept for egg production.

.....

The diagram below shows structures built by worker bees in the hive. Use it to answer questions **5** and **6**.



5. Name the structures shown in the diagram above.

.....

6. State the importance of the above structures to the worker bees in the hive.

.....

7. Which group of arthropods breathe through gills?

.....

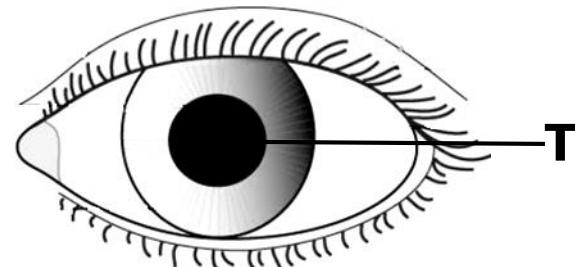
8. Give any **one** reason why the pigsty should be built with the slanting floor.

.....

9. What force enables a rubber to erase pencil diagrams?

.....

The diagram below shows the front view of a human eye. Use it to answer question **10**.



10. State the function of part marked **T**.

.....

11. Write down any **one** activity done by a crop farmer in the garden using a spade.

.....

12. State a reason why it is not advisable to burst blisters on a burnt or scalded skin.

.....

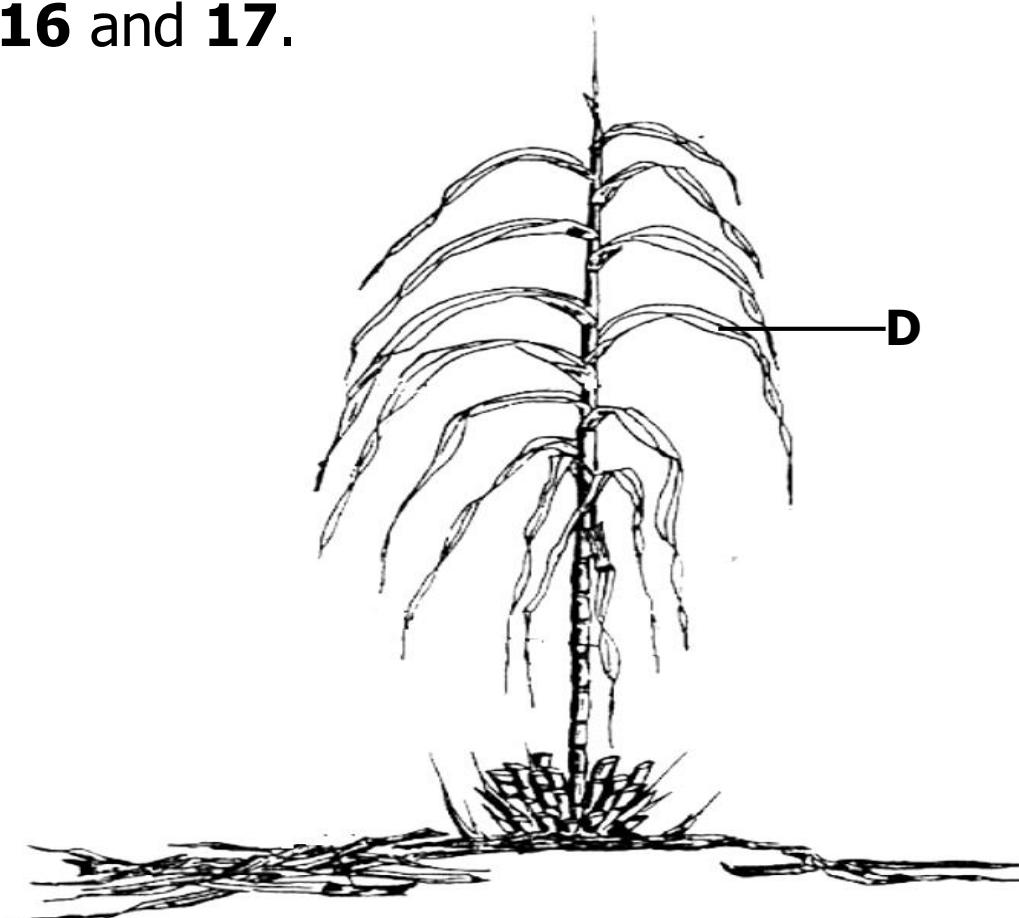
13. Give any **one** reason school children are encouraged to wear shoes or sandals.

.....

14. Which disease of the circulatory system is caused by abnormal increase in the number of white blood cells?
-

15. How is the cochlea important in the process of hearing?
-

The diagram below shows a sugarcane plant. Study it and answer questions **16** and **17**.



16. What type of leaf venation does part marked **D** have?
-

17. How is the propagation of the above plant different from that of a millet plant?
-

18. State any **one** factor that leads to weathering of rocks.
-

19. Mention any **one** condition under which essential drugs can be stored.
-

20. How is the movement of hip joint different from that of knee joint?

.....
.....
.....

21. State any **one** characteristic of forms of energy.

.....

22. State any **one** activity carried out by school children to promote cleanliness at school.

.....

23. Give any **one** way in which heat transfer by radiation is important to people.

.....

24. How is a black jack adapted to animal dispersal?

.....

25. State the importance of bile juice during digestion.

.....

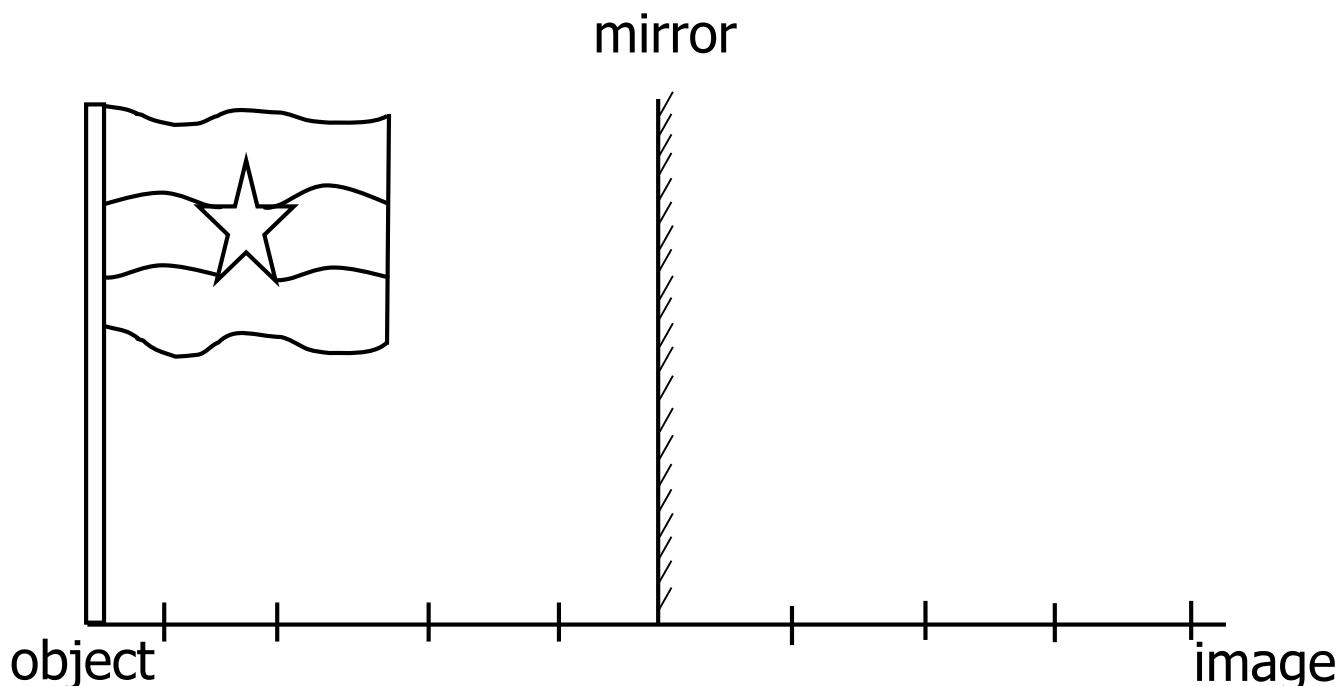
26. Apart from labour, give any **one** other requirement for starting a livestock farm.

.....

27. State the importance of oxygen during respiration.

.....

The diagram below shows an object placed in front of a mirror and it formed an object as shown. Study and answer the questions **28** and **29**.



28. Which type of mirror is shown in the diagram above?

.....

29. Complete the diagram by drawing the image to show its appearance in the mirror.

30. Why does a person boiling water for preparing posho sprinkle some flour on water when it becomes hot?

.....

31. Which element of Primary Health Care (PHC) helps to reduce infant mortality rate?

.....



32. Apart from cotton, name any **one** other example of a plant fibre.

.....

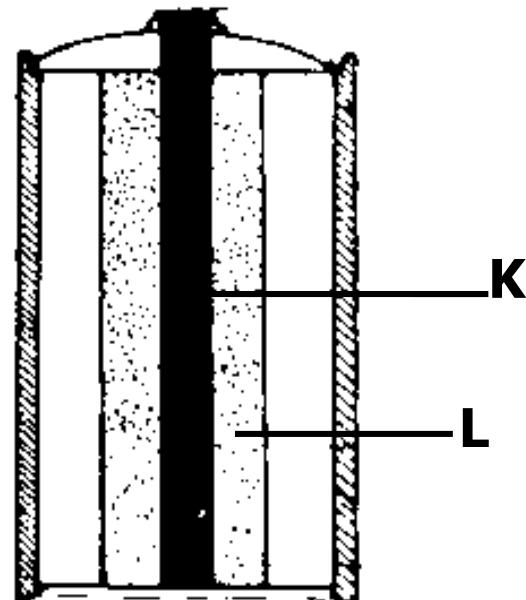
33. Which part of a billy is removed or destroyed during castration?

.....

34. Give any **one** disease that can break out through 4F^s germ path.
-

35. What is the importance of spikes put on shoe soles?
-

The diagram below shows a dry cell. Study and use it to answer questions **35** and **36**.



36. Name the part marked **K**.
-

37. State the function of the substance marked **L** in the dry cell.
-

38. Mention any **one** insect that uses mandibles for feeding.
-

39. Why would you encourage a victim with nose bleeding to breathe through the mouth?
-

40. Name the method of purifying water which provides water for mixing drugs in hospitals.

.....

SECTION B: 60 MARKS

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

41. a) Name the part of the digestive system that;

(i) absorbs water

(ii) rolls food into a bolus

- b) What is the major cause of constipation in digestion?

.....

- c) State any **one** way of keeping the digestive system in proper working condition.

.....

42. a) Write down any **two** causes of near drowning.

(i)

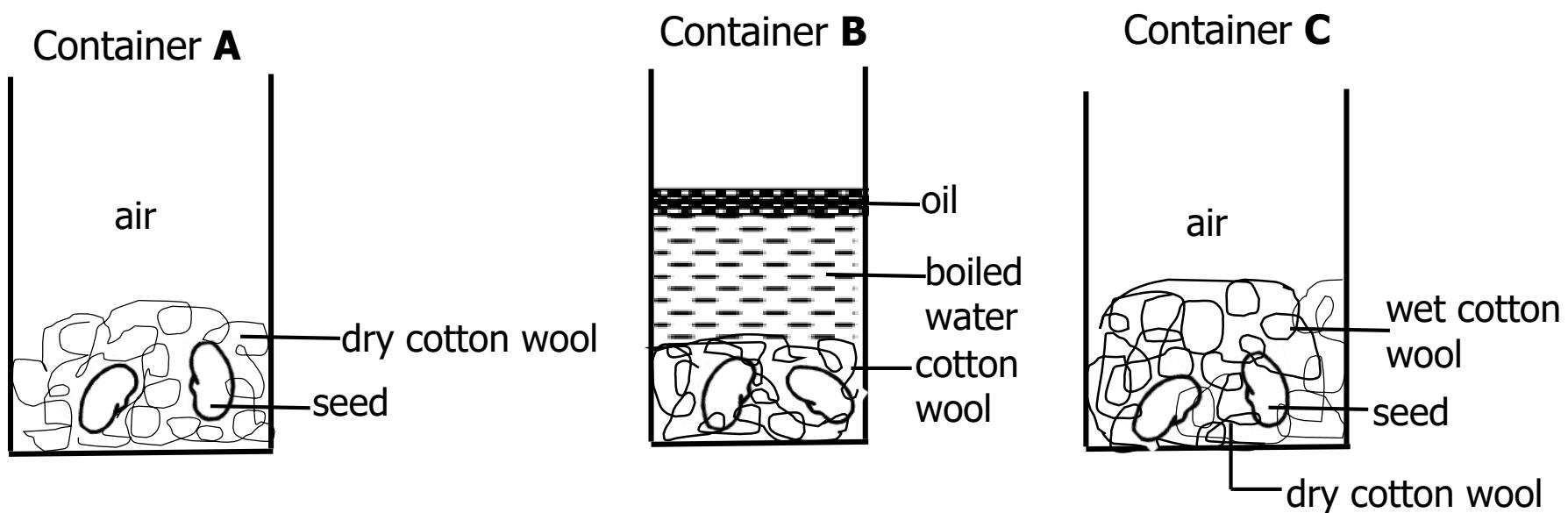
(ii)

- b) Why is a person giving first aid to a near drowned person advised to;

(i) compress the victim's chest?

(ii) apply kiss of life?

43. The diagram below shows an experiment about germination. Study it carefully and answer questions that follow.



- a) In which of the containers will the seeds germinate after some days?

.....

- b) Why would the seeds in the container you have identified germinate?

.....

.....

- c) Give **one** effect of oil on the seeds in container **B**.

.....

- d) State the role of the condition which is absent in container **A** during germination.

.....



44. a) Give any **two** examples of poisonous snakes.
- (i)
- (ii)
- b) State any **one** characteristic of poisonous snakes.
.....
- c) Apart from snakes, mention any **one** other example of a reptile.
.....

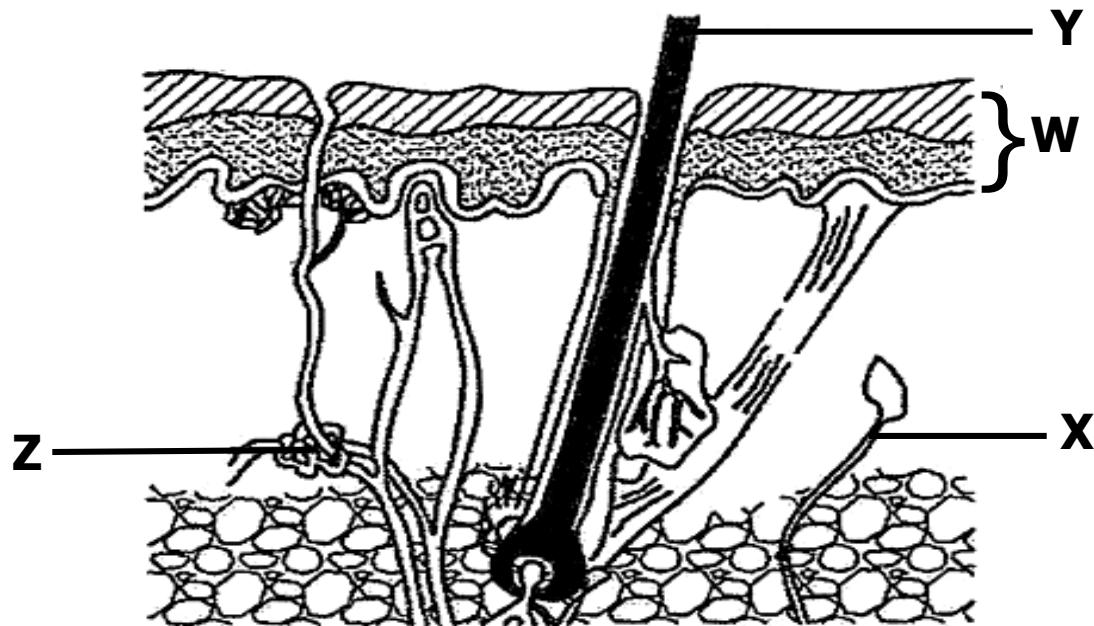
45. In the table below, part **A** shows blood components and part **B** shows their functions.

Part A: Components	Part B: Function
Blood plasma	Help in blood clotting
Red blood cells	Fight against disease germs
White blood cells	Carries digested food nutrients
Blood platelets	Carry oxygen in the body

Select from the table the correct function of a blood component and write it in the space provided below.

- (a) Blood plasma
- (b) Red blood cells
- (c) White blood cells
- (d) Blood platelets

46. The diagram below is of a human skin. Study and use it to answer the questions that follow.



- a) Name the layer marked **W**.

.....

- b) State the function of part marked **X**.

.....

- c) Why does part marked **Y** stand upright on a cold day?

.....

- d) What substance is produced by part marked **Z**?

.....



47. a) Identify the method of grazing where cattle are fed on prepared pasture from indoors.

.....

- b) State any **two** advantages of the above method of grazing cattle.

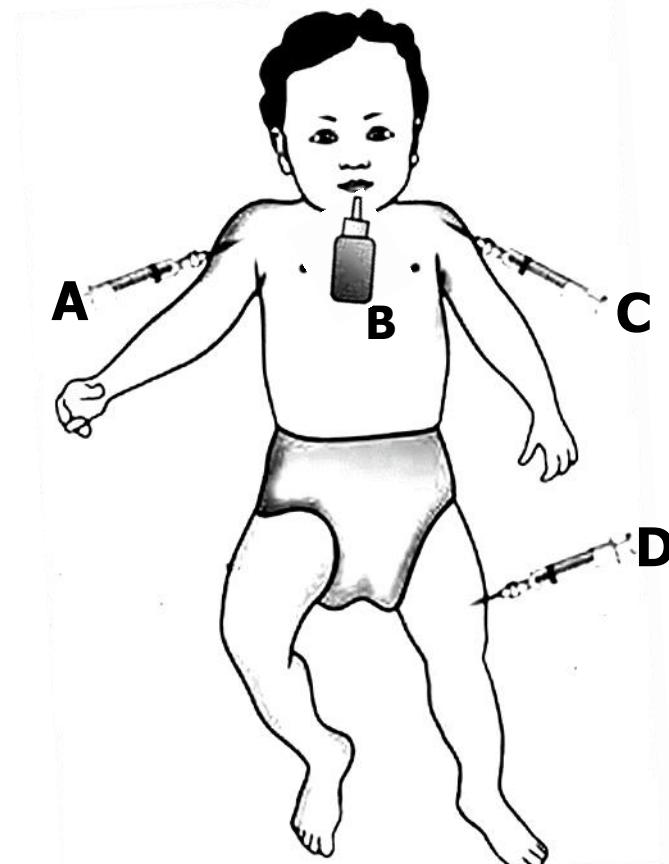
(i)

(ii)

- c) Give any **one** reason why the above method of grazing cattle is used by few farmers.

.....

48. The diagram below shows how different vaccines are administered on the baby's body. Study and use it to answer the questions that follow.

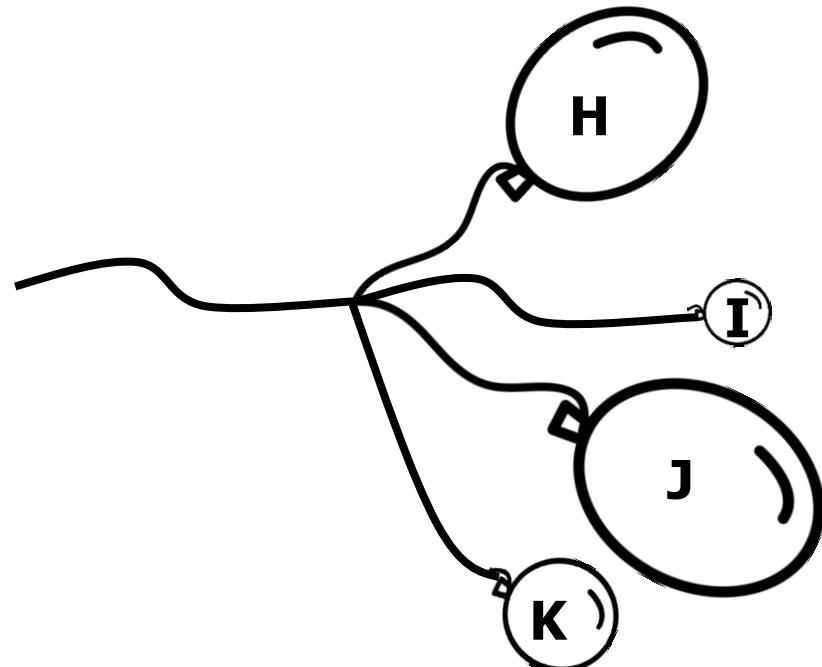


- a) Name the vaccines administered at the sites marked **A** and **C**.
- (i) **A**
- (ii) **C**
- b) Mention any **one** disease that is immunised against using the vaccine administered at the site marked **D**.
-
- c) How is the vaccine administered at site **B** different from the one administered at site **C**?
-
49. A patient was not feeling well. When the nurse measured her body temperature, it had increased by 3°C .
- a) What was the body temperature of the patient?
-
- b) Convert the body temperature above to Fahrenheit scale.

- c) State any **one** difference between heat and temperature.

.....
.....
.....

50. The diagram below is of balloons representing different gases in the atmosphere. Study and use it to answer the questions that follow.



- a) Name the gas represented by the balloon marked **H**.

.....

- b) Which balloon represents the gas with the least percentage in the atmosphere?

.....

- c) State any **one** use of the gas represented by balloon **J**.

.....

- d) Mention any **one** gas that can be found in balloon marked **K**.

.....

51. a) Why do earthworms come out of the soil after it has rained?

.....

b) Give any **two** ways in which earthworms are important in the soil.

(i)

(ii)

c) State the reason why an earthworm dies when oil is poured on its body.

.....

52. The diagram below shows types of lenses. Study and use it to answer the questions that follow.



a) Name the type of lens marked **R**.

.....

b) Which eye defect is corrected using the type of lens marked **S**?

.....

c) State any **one** cause of the eye defect you have given in (b) above.

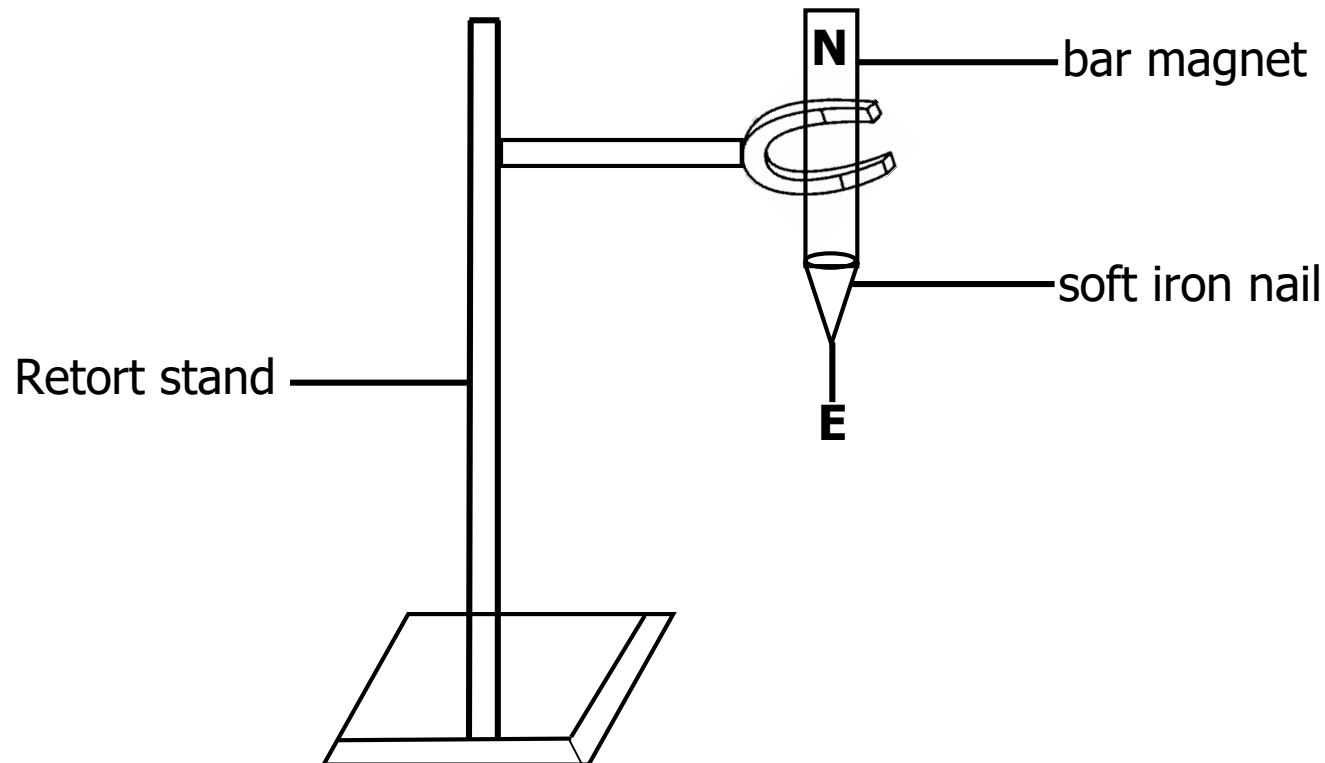
.....

d) Draw light rays on the lens marked **R** to show how the beam of light behaves on it.



53. a) State the reason why tree logs for making charcoal are;
- (i) covered with soil
- (ii) burnt under limited oxygen supply
- b) Give any **one** way in which charcoal burning affects the environment.
.....
- c) Apart from charcoal, write down any **one** other example of wood fuel.
.....
54. a) Write down any **two** secondary sex changes that occur in both adolescent girls and boys.
- (i)
- (ii)
- b) In which way is each of the following important to a foetus during pregnancy?
- (i) placenta
- (ii) umbilical cord

55. The diagram below shows a method of making temporary magnets. Study carefully and use it to answer the questions that follow.



- a) Name the method of making temporary magnets shown above.

.....

- b) Identify the magnetic pole of the soft iron nail at **E**.

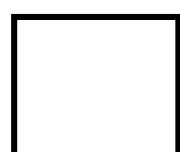
.....

- c) Mention any **one** factor which determines the strength of the magnet made by the above method.

.....

- d) State the reason why a magnet made using the above method is regarded as a temporary magnet.

.....



SECTION A: 40 MARKS

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

1. Name the hardest part of the tooth.

.....

2. State any **one** factor to consider when starting a livestock farm.

.....

3. Give any **one** use of honey to people.

.....

4. Give any **one** way in which heat is important in the environment.

.....

5. Why is it advisable to sleep under a treated mosquito net?

.....

6. State **one** way in which food contamination can be prevented at home.

.....

The diagram below shows a reproductive part of a flower. Use it to answer questions **7** and **8**.



7. Name the reproductive part of the flower in the diagram above.

.....

8. Use letter **K** to show the part that produces pollen grains.

.....

9. Give any **one** way in which school children can promote immunization in the community.

.....

10. Name the part of the digestive system that produces gastric juice.

.....



11. State the reason why the key sinks when lowered in a basin full of water.

.....

12. How do hook worms enter the body of a person?

.....

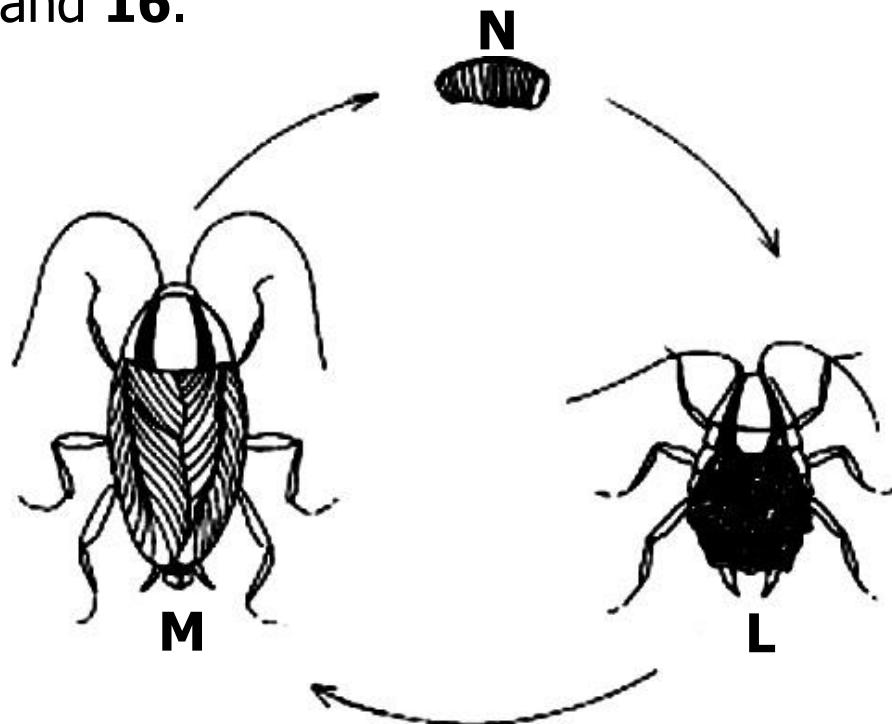
13. State the element of Primary Health Care (PHC) that controls population growth.

.....

14. Name the disease spread by tsetse flies to humans.

.....

The diagram below shows the life cycle of a cockroach. Use it to answer questions **15** and **16**.



15. Name the stage marked **L**.

.....

16. Mention any **one** other insect that undergoes the above life cycle.

.....

17. Why are beans grouped under leguminous crops?

.....

18. State any **one** way of improving soil fertility.

.....

19. Which body organ in the human being has the same function as gills in fish?

.....

20. Give any **one** way in which bacteria are harmful to people.

.....



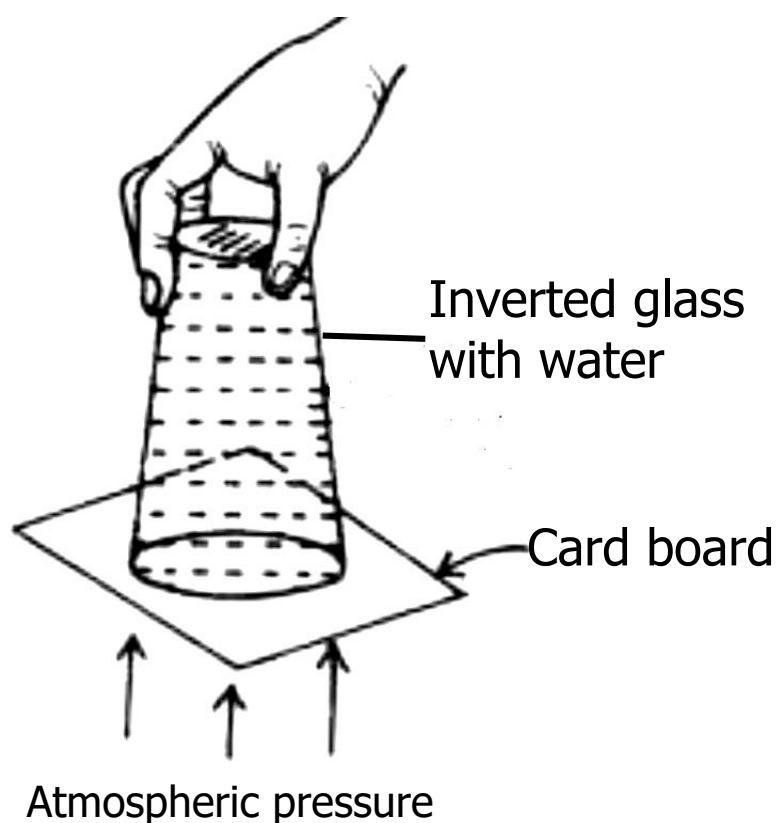
21. Name the type of immunity acquired by a child recovering from measles.

.....

22. Mention any **one** way in which you can prevent rats at home.

.....

The diagram below shows a property of air. Use it to answer questions **23** to **24**.



23. State the property of air shown in the diagram above.

.....

24. Give any **one** use of the above property of air to people.

.....

25. Give any **one** condition that can lead bottle feeding at home.

.....

26. State any **one** way in which school children can control the spread of skin diseases.

.....

27. State any **one** way in which the spread of diarrhoea can be controlled.

.....

28. Mention any **one** way of making water safe for drinking.

.....

29. Why are gaps left between railway lines during construction?

.....

30. Apart from using scare crows, state any other way of protecting crops in the garden against crop pests.

.....



31. Give any one reason why it is important to have enough rest and sleep.

.....

32. Give any one way in which scalds and burns are similar.

.....

33. State one reason why a fire extinguisher is usually painted with bright colours.

.....

34. Write down any **one** PIASCY message commonly displayed in school compounds.

.....

35. Write down any **one** activity carried out by Young Farmers Clubs at school.

.....

36. State any **one** way in which water is important during seed germination.

.....

37. State any **one** way in which crafts are important to people.

.....

38. How can you recover salt that is mixed with sand?

.....

39. Give any **one** way in which of caring for domestic animals at home.

.....

40. Give any **one** effect of rusting on metallic tools.

.....



SECTION B: 60 MARKS

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

41. State the physical processes in matter by which;

a) Ice turns to water

b) Water turns to steam.

c) Steam turns to water.

d) Water turns to ice.

42. a) Give the meaning of the following terms;

i) soil erosion.

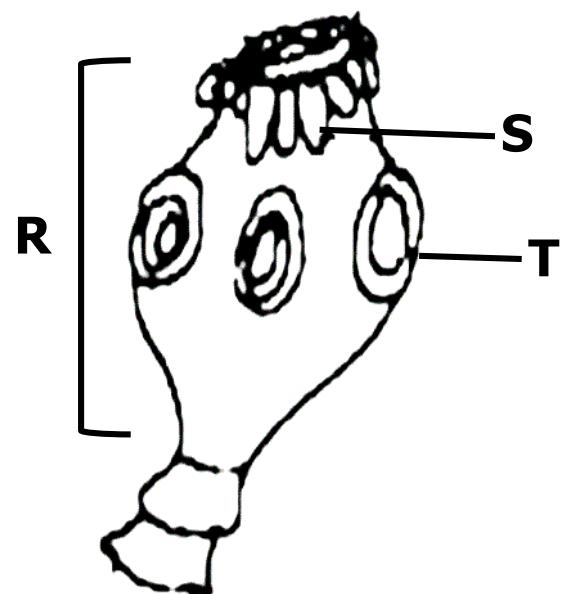
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.....

ii) weathering.

.....

- b) Identify any **two** activities farmers do to control soil erosion in their gardens.
- i)
- ii)
43. The diagram below shows the head of an intestinal worm. Study it and use it to answer the questions that follow.



- a) Name the parts marked **R** and **S**.
- i) **R**
- ii) **S**
- b) State the function of part marked **T** to the above intestinal worm.
.....
- c) What does the above worm feed on?
.....



44. a) Why are carrots called root tubers?

.....
.....

b) Apart from carrots, write down any **two** other examples of root tubers.

- i)
- ii)

c) How are carrots propagated?

.....

45. a) State any **two** signs that show that a school child has poor personal hygiene.

- i)
- ii)

b) Give any **two** diseases that can break out due to poor personal hygiene.

- i)
- ii)

46. a) Name the **main** product got from each of the following animals.

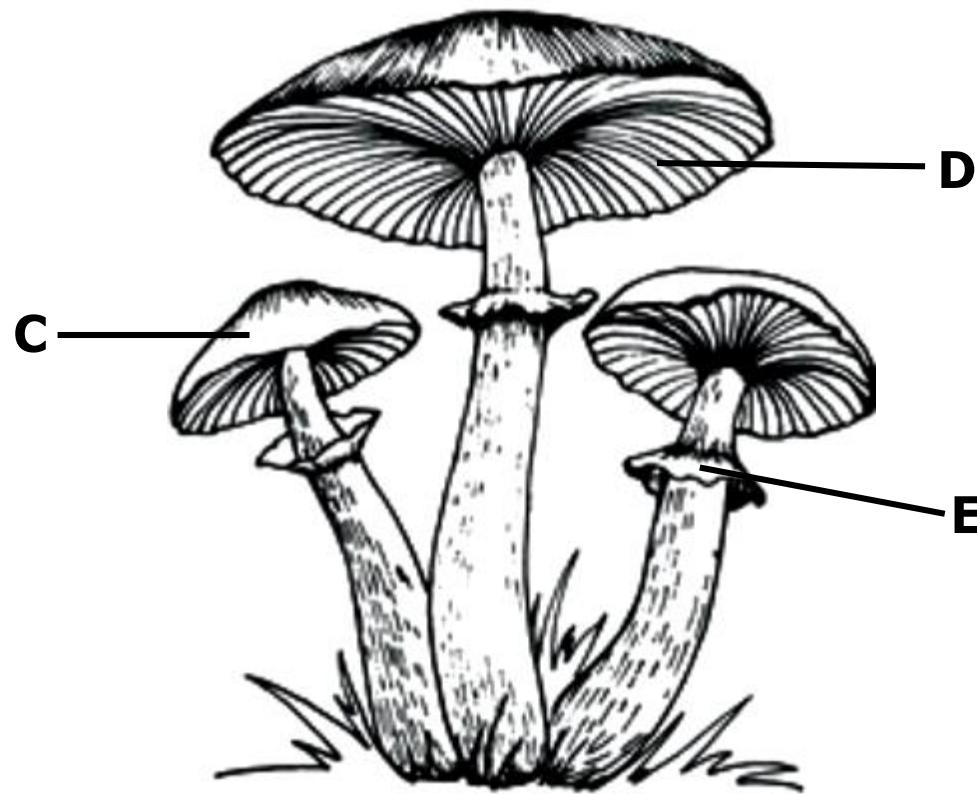
- i) Merino sheep
- ii) Angora goats

b) Mention any **two** breeds of goats that are eot for milk production.

- i)
- ii)



47. The diagram below is of a fungus. Study and use it to answer the questions that follow.



- a) Name the parts marked with **C** and **E**.
- C**
 - E**
- b) How is part **D** useful to the above fungus?
.....
- c) Give any **one** use of the above fungus to people.
.....
48. a) Mention any **two** diseases that attack rabbits.
-
 -
- b) State any **two** ways of controlling diseases among rabbits
-
 -

49. The table below shows elements of weather in part **A** and their effects in part **B**.

A: Elements of weather	B: Effects
Clouds	Causes drought.
Rainfall	Raises dust.
Wind	Causes floods.
Sunshine	Causes rain.

Match correctly the elements of weather with their effects in the spaces provided.

- i) Clouds
- ii) Rainfall
- iii) Wind
- iv) Sunshine

50. a) Give the meaning of the following terms.

- i) Dehydration

.....

.....

- ii) Rehydration

.....

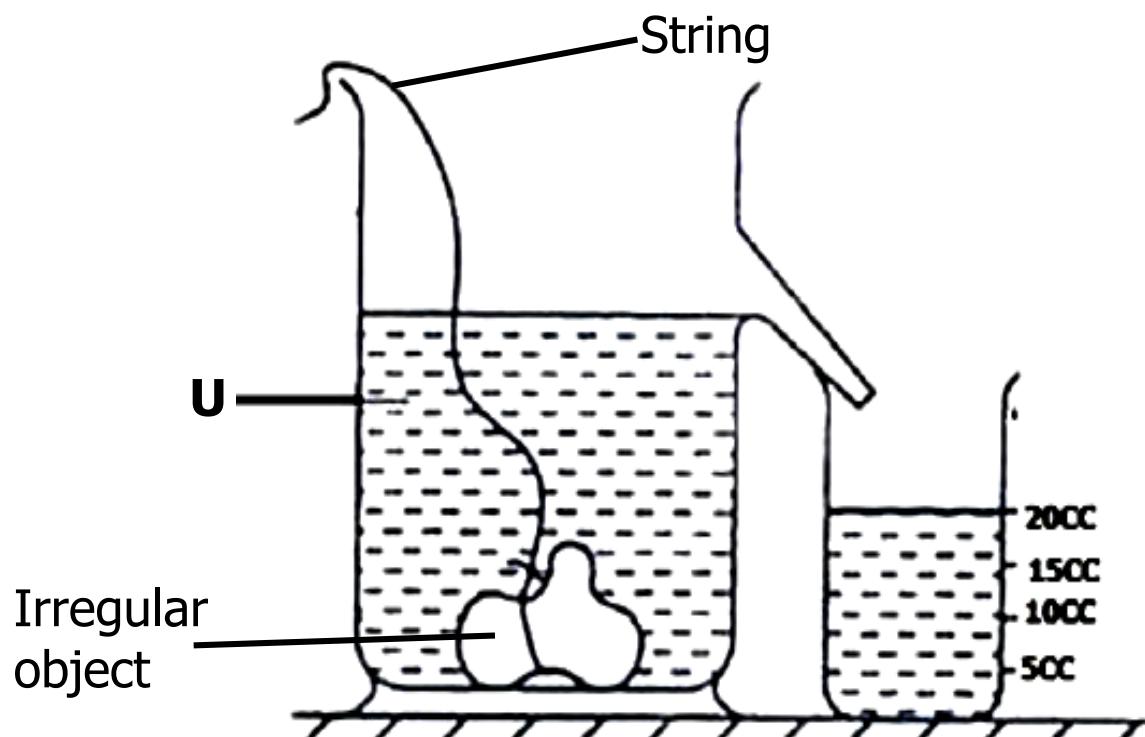
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- b) State any **two** causes of dehydration in humans.

- i)

- ii)

51. The diagram below shows a method of finding volume of an irregular object. Study it and use it to answer the questions that follow.



- a) Identify the method of finding volume of the irregular object shown above.

.....

- b) What is the volume of the irregular object above?

.....

- c) Name the container marked **U**.

.....

- d) State the role of the string in the above experiment.

.....

52. a) Name any **two** states of matter.

i)

ii)

- b) State any **two** reasons why mercury is used in thermometers.

i)

ii)



53. a) Why are babies grouped under vulnerable groups of people?

.....

b) State any **two** ways of caring for babies.

i)

ii)

c) Apart from babies, give any other group of vulnerable people?

.....

54. a) Mention any **two** examples of biological changes in plants.

i)

ii)

b) State any **two** ways in which biological changes are important in the environment.

i)

ii)

55. a) Mention any **two** requirements of a clean home.

i)

ii)

b) State any **two** ways how school children can promote good sanitation.

i)

ii)

