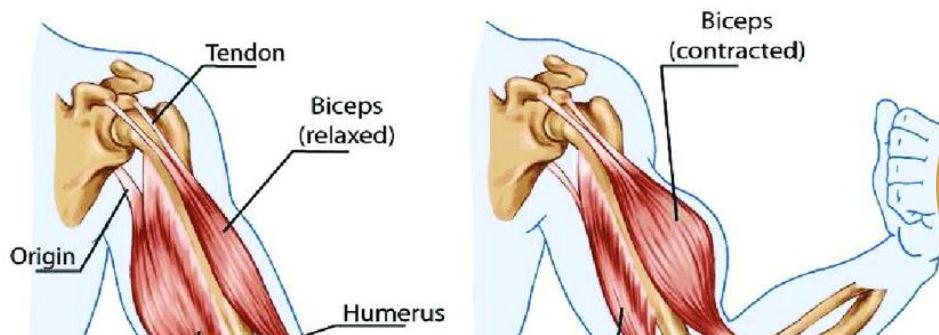
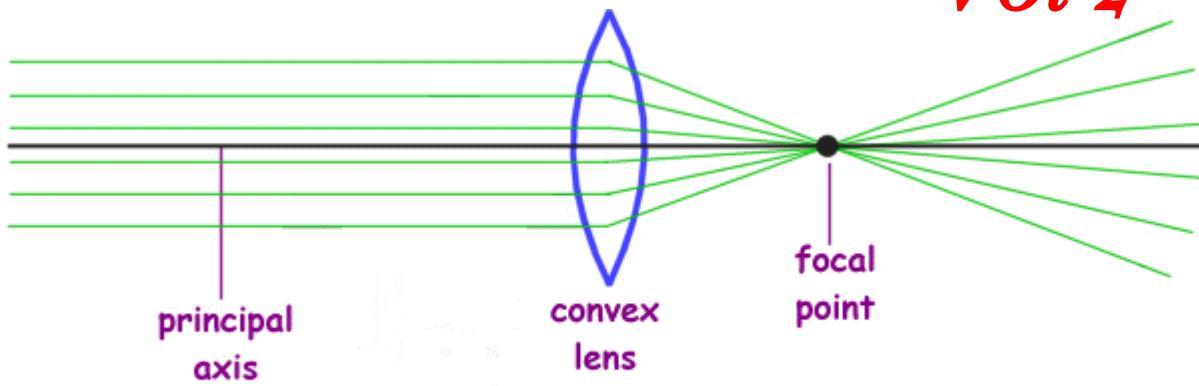


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SECTION A: 40 MARKS

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

1. Name the element of weather that helps crop farmers to carryout winnowing.

.....

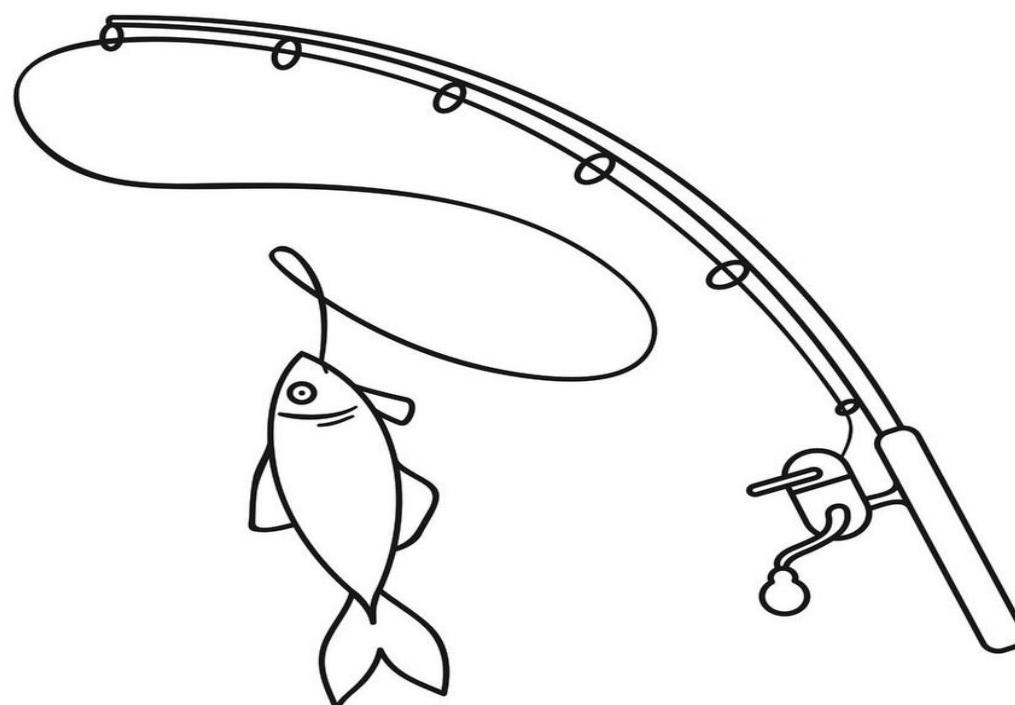
2. Mention any **one** fungal disease that affects the human skin.

.....

3. How is culling important in poultry management?

.....

The diagram below is of **a fishing rod**. Study and use it to answer questions **4** and **5**.



4. Name the class of levers to which the fishing rod belongs.

.....

5. On the diagram above, label the load.

6. Why is it not advisable to keep potted plants in a room where people live?

.....

7. Give any **one** disorder of the human digestive system.

.....

8. Why is the filament of an electric bulb coiled?

.....

9. In which part of an onion plant is food stored?

.....



10. State any way in which the fish benefits from its slippery body.

.....

11. How is the function of the cotyledon in the maize grain different from that in a bean seed?

.....

.....

12. Give any **one** way in school children benefit from a school garden.

.....

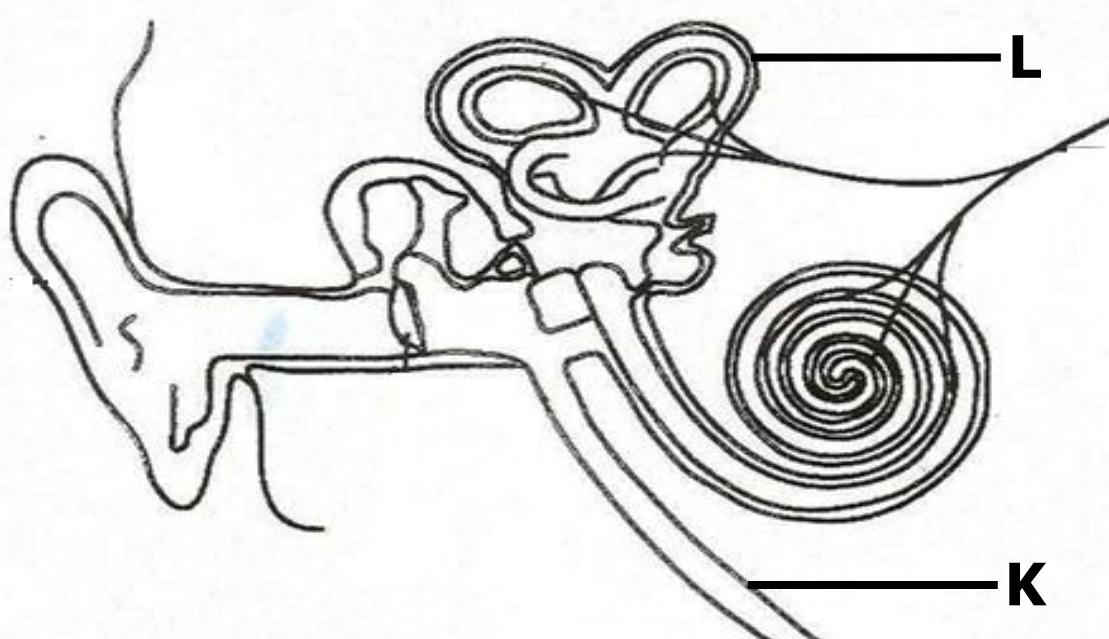
13. What is the importance of giving a person who has drunk paraffin fluids like milk to drink?

.....

14. State the best way of preventing childhood immunisable diseases.

.....

The diagram below shows a **human ear**. Study and use it to answer questions **15** and **16**.



15. Name the part marked **K**.

.....

16. State the function of the part marked **L** on the human ear above.

.....

17. Which disease vector spreads river blindness to people?

.....

18. How does painting help to prevent a metallic object from rusting?

.....

19. State any **one** way of increasing the volume of blood in the human body.

.....

20. In which one way are air sacs (alveoli) able to carry out gaseous exchange?

.....



21. Why is it more difficult to push a wheelbarrow uphill than downhill?

.....

.....

22. Apart from making alcohol, state any **one** other way in which distillation is useful to people.

.....

23. State any **one** factor to consider before sorting clothes for washing.

.....

24. How does a candle manufacturer benefit from bee keeping?

.....

25. Apart from preventing teenage pregnancy, give **one** other reason why school girls are advised to abstain from sex.

.....

26. State the importance of moulting to an insect.

.....

27. What is the function of the cortex in the kidney?

.....

28. How does buoyancy(upthrust) force affect the weight of objects in water?

.....

.....

29. How is a chameleon important to human beings?

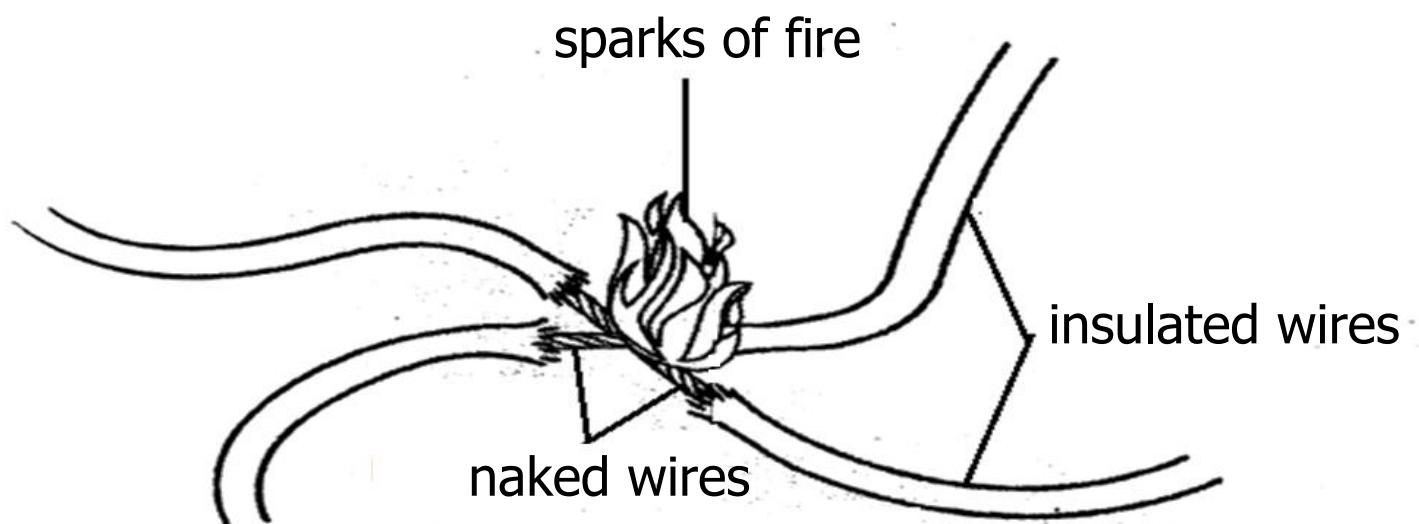
.....

30. Give any **one** breed of goats kept for milk production.

.....



The diagram below shows a condition during the flow of electricity along electric wires. Study and use it to answer questions **31** and **32**.



31. Identify the electrical condition shown above.

.....

32. Write any **one** cause of the above condition during flow of electric current

.....

33. Why is it not advisable to stop petrol fire using water?

.....

34. State any **one** way in which colostrum is important to a newly born calf.

.....

35. What would you do to the garden where planted seeds failed to germinate?

.....

36. Why does a clay-made charcoal stove use less charcoal than a metallic one?

.....

37. State any **one** habit that helps to promote oral health.

.....

38. What is the importance of a chimney on a kitchen?

.....

39. State any **one** reason why clay soil is used for making ceramics.

.....

40. In which part of a lens camera are images formed?

.....

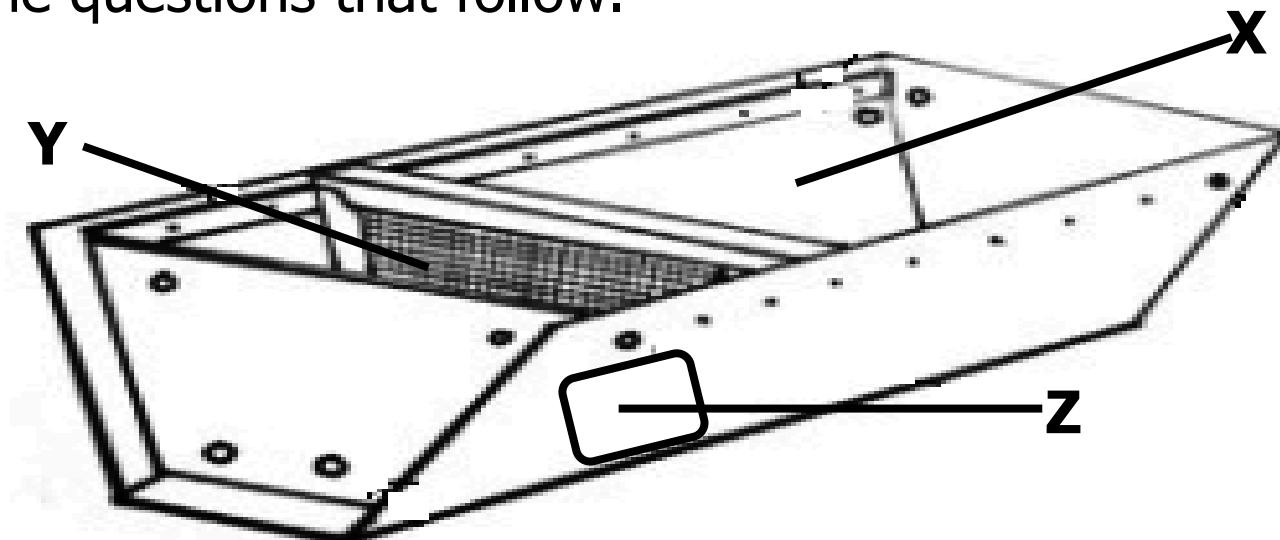


SECTION B: 60 MARKS

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

41. (a) Name the part on a house that performs the following functions,
- (i) Lets fresh air into the house
- (ii) Lets warm air out of the house
- (b) By what process does heat travel through a saucepan placed on a gas cooker?
.....
- (c) State any **one** way in which insulators of heat are useful to people.
.....

42. The diagram below shows a type of bee hive. Study and use it to answer the questions that follow.



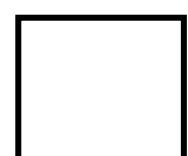
- (a) Name the parts marked **X** and **Z**.
- (i) **X**
- (ii) **Z**
- (b) State any **one** function of the part marked **Y** on the beehive above.
.....
- (c) Identify the type of beehive shown above.
.....

43. The table below shows parts of a flush toilet with their functions in the wrong order.

Part	Function of part
Toilet seat	Stores faeces and urine
Bowl	Stores water for flushing the toilet
Cistern tank	For the user to sit on when defecating
Septic tank	For depositing faeces and urine

Match the parts to their function by re-writing the correct order.

- a) Toilet seat.....
- b) Bowl.....
- c) Cistern tank
- d) Septic tank.....



44. A Primary Five pupil mixed sugar with water and stirred.

- (a) State what happened to sugar.

.....

- (b) Why did sugar behave as stated in (a) above?

.....

- (c) Identify the name given to the following substances in the above experiment.

(i) Sugar

(ii) Water

45. (a) Name any **two** examples of wedges.

(i)

(ii)

(b) Give any **two** ways in which a crop farmer uses wedges.

(i)

(ii)

46. The list below shows food stuffs that belong to different classes of food. Use it to answer the questions that follow.

Orange, Honey, Iodised salt, cassava

(a) In which class of food does iodised salt belong?

.....

(b) Name any **one** class of food which is not represented in the above list.

.....

(c) Identify any **one** foodstuff you would advise a brick maker to eat.

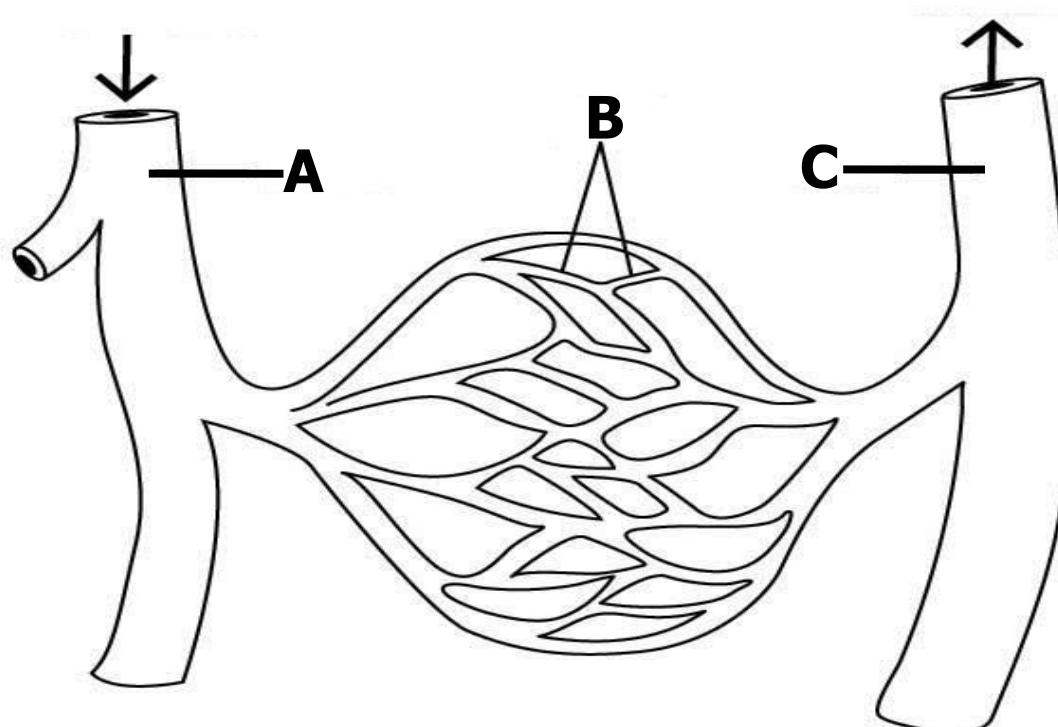
.....

(d) How are oranges useful to human health?

.....



47. The diagram below shows **blood vessels in the human circulatory system**. Study and use it to answer the questions that follow.



- (a) Name the blood vessels marked **A** and **B**.
- (i) **A**
- (ii) **B**
- (b) State any **one** structural difference between blood vessel **A** and blood vessel **C**.
-
.....
- (c) Give any **one** function of blood vessel **B** during blood circulation.
-

48. (a) What germ causes gonorrhea in human beings?

.....

(b) Give any **two** signs of gonorrhea.

(i)

(ii)

(c) State any **one** way of preventing gonorrhea in human beings.

.....

49. (a) Give any **two** ways in which drug dependence can affect an individual.

(i)

(ii)

(c) State **two** ways in which an individual can avoid drug dependence.

(i)

(ii)



50. (a) Mention any **two** chemicals used to treat water.

(i)

(ii)

(b) Apart from using chemicals, state any **one** other method used to make water safe for drinking.

.....

(b) Why is water obtained by filtration not good for drinking?

.....

51. (a) Apart from compost manure, mention any **two** other examples of natural fertilizers.

(i)

(ii)

(b) Why should water be sprinkled on a compost pit or heap?

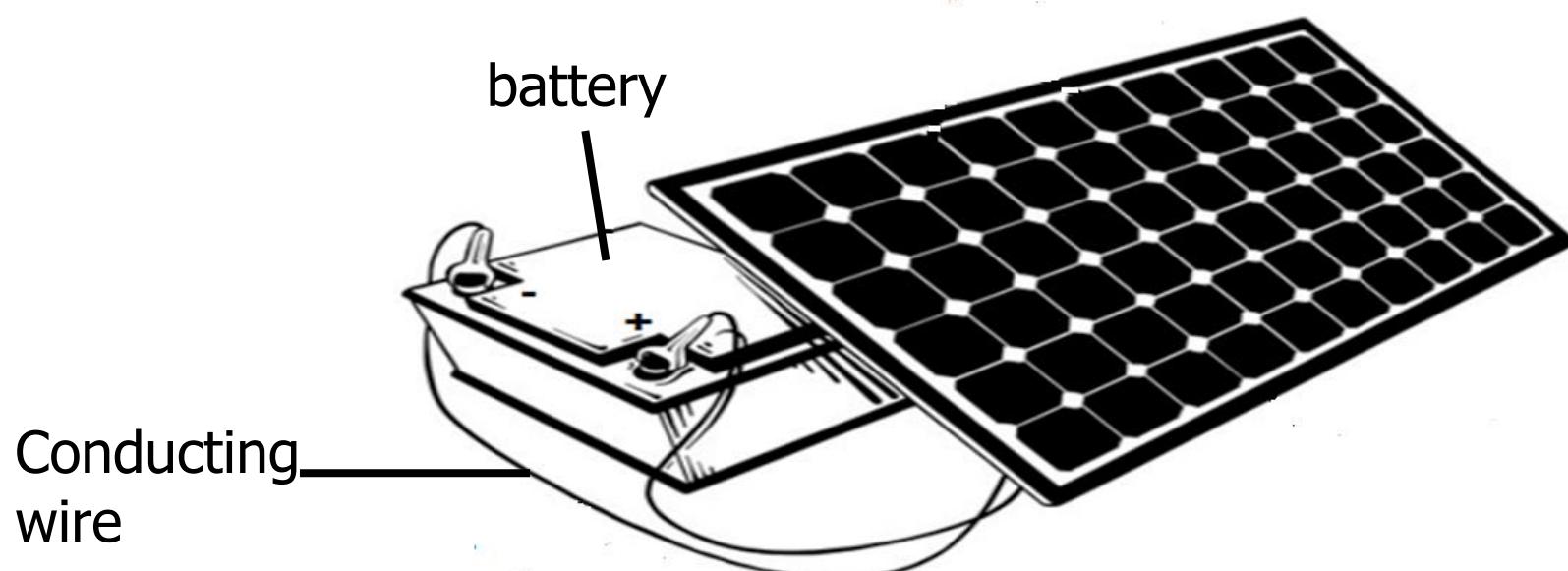
.....

(c) State any **one** advantage of using natural fertilizers over artificial fertilizers.

.....

.....

52. The diagram below shows a device used in the production of electricity. Study carefully and use it to answer the questions that follow.



- (a) Identify the device shown in the diagram above.

- (b) Give any **one** reason why the above device is usually,

- (i) placed on top of a house roof.

- (i) painted black on the surface.

- (c) Name any **one** electrical appliance that uses electricity produced by the above device.



53. (a) Give any **one** reason why a passion fruit plant climbs others.

.....

(c) Apart from a passion fruit plant, name any **one** other plant that climbs others.

.....

(b) State any **two** ways how plants with weak stems climbs others.

(i)

(ii)

54. The table below shows groups of birds, type of food eaten and nature of their beaks. Study and complete it correctly.

Group	Type of food	Nature of beak
Climbing birds	Strong pointed and chisel shaped beak.
.....	Flesh	Strong sharp hooked beak
Wading birds	Long thin beak
Swimming birds	Fries, toads, frogs

55. (a) Name the fungus used in the following,

(i) brewing of alcohol

.....

(ii) making of antibiotics

.....

(b) State any **two** ways in which fungi are harmful to people.

(ii)

(iii)



SECTION A: 40 MARKS

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

1. Name the type of chicken purposely kept for egg production.

.....

2. Which vector spreads yellow fever to people?

.....

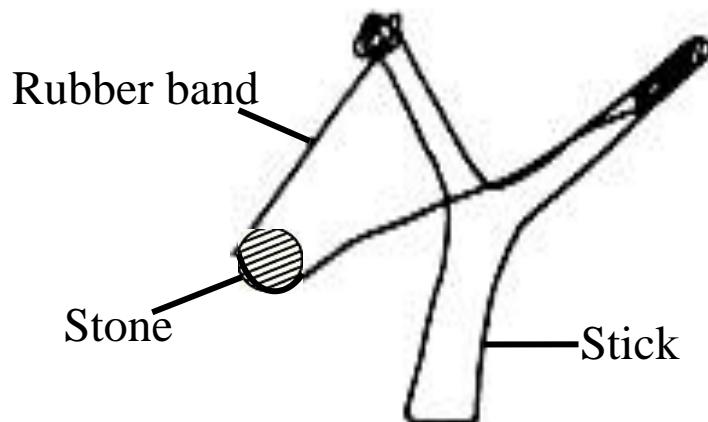
3. State any **one** use of soap in promoting personal hygiene.

.....

4. Give any **one** example of a sea mammal.

.....

The diagram below shows a stone being thrown using a catapult. Use it to answer question **5**.



5. What type of energy is possessed by the rubber band before the stone is released?.

.....

6. Which group of non-flowering plants reproduce by means of seeds?

.....

7. State the type of change that enables Primary Seven pupils to burn rubbish in a rubbish pit.

.....

8. Mention the component of soil that enables plants to carry out photosynthesis.

.....

9. Why is transplanting of seedlings done in the evening?

.....

.....

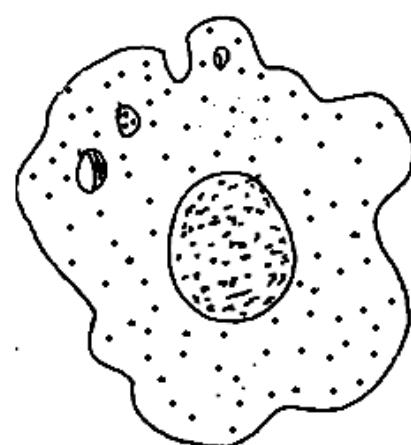
10. How are the ossicles useful during the process of hearing?

.....

.....



The diagram below is a white blood cell. Use it to answer questions 11 and 12.



11. Use letter **T** to show the nucleus on the diagram above.

12. Give the function of the white blood cells in the body.

.....

13. Write down any **one** activity done to keep food safe for more than one month.

.....

14. State any **one** way of controlling diarrheal diseases in the community.

.....

15. In which state of matter is smoke?

.....

16. State any **one** primary sex change common in both adolescent boys and girls.

.....

17. Give any **one** way in which a shopkeeper uses electricity.

.....

18. How does a hyena benefit from following a lion?

.....

19. State the difference in function between a tendon and a ligament at a joint.

.....

20. Give any **one** way in which regular medical check-ups are important to the human body.

.....



21. How does debeaking help to control egg eating in chicken?

.....

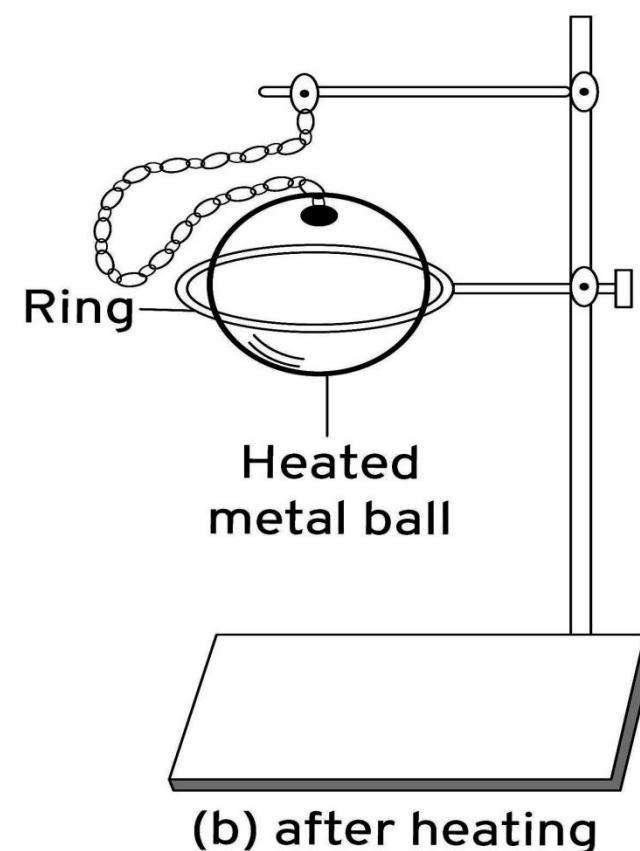
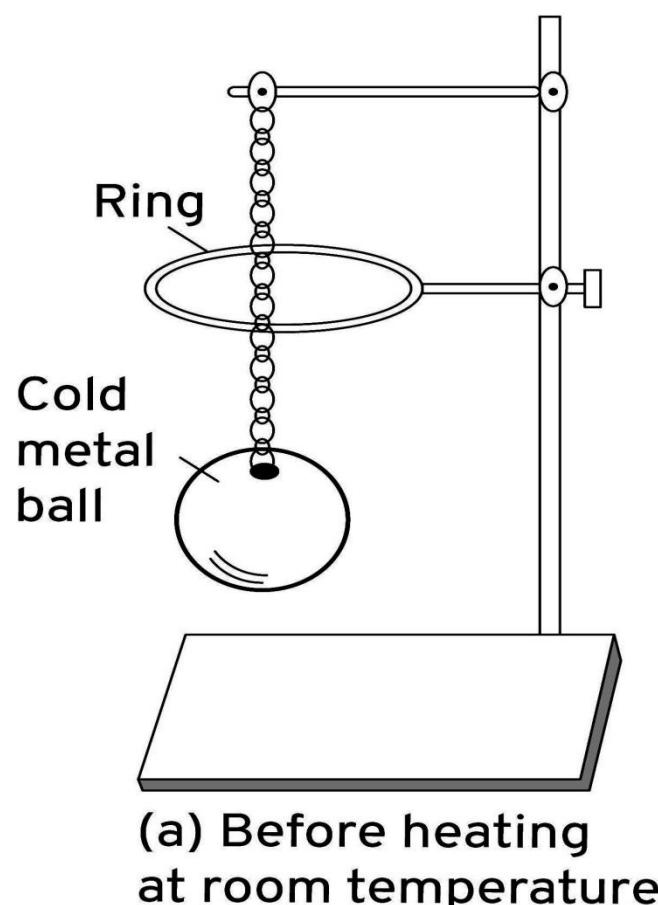
22. Apart from pregnant mothers, name **one** other group of people who are given TT vaccine.

.....

23. Which cattle disease makes animals to move in circles?

24. State the importance of mucus found on the lining of the alimentary canal during digestion.

The diagrams below show two metallic ball rings. Study them and answer questions **25** and **26**.



25. What does the above experiment show about metals?

26. Why did the metallic ball in diagram **B** fail to pass through the ring?

27. Why should parents stop children from eating a lot of sweets?

28. How does a skunk protect itself against enemies?

.....

29. State any **one** way of preventing burns and scalds at home.

.....

30. How do energy saving stoves help to conserve wood fuel?

.....

.....



31. State any **one** condition favourable for soil to support good plant growth.

.....

32. How does decision making help school children to safeguard themselves against alcoholism?

.....

.....

33. Which instrument is used to measure atmospheric pressure?

.....

.....

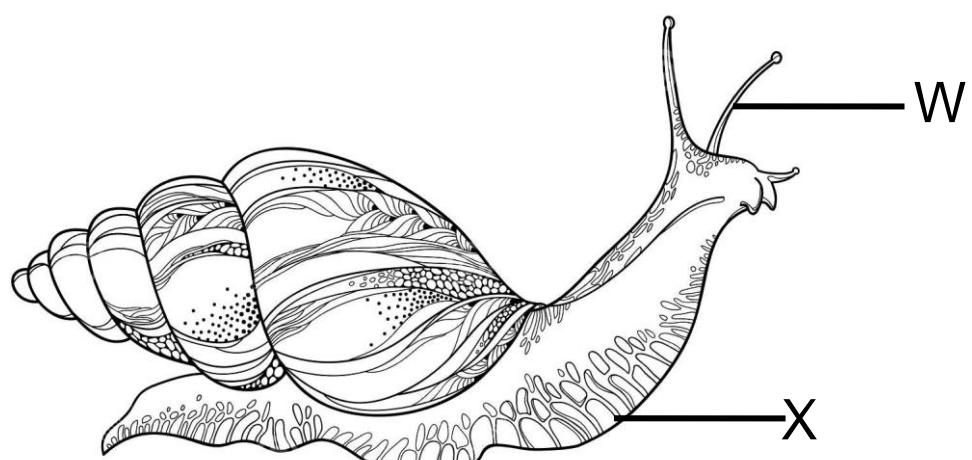
34. Give any **one** reason why animals move from one place to another.

.....

.....

35. Which group of people are easily harmed due to poor feeding?

The diagram below is of an invertebrate in the mollusc group. Study it and use it to answer questions 36 and 37.



36. Name the part marked **W**.

.....

37. State the function of substance marked **X** to the above mollusc during movement.

.....

38. Apart from the skin, give **one** other body organ that makes use of light energy.

.....

39. State any **one** characteristic that enables termites to build an anthill within a short period of time.

.....

40. State any **one** principle of Primary Health Care P.H.C).

.....



SECTION B: 60 MARKS

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

41. (a) Why is rusting called a chemical change?

.....

- (b) State **two** conditions necessary for rusting to take place.

(i)

(ii)

- (c) Give any **one** way in which rusting is important in the environment.

.....

42. The illustration below shows a method of storing music. Use it to answer the questions that follow.

m:d:s		m:d:s		m:-:-		d:-:-d	
-------	--	-------	--	-------	--	--------	--

- (a) Identify the method of storing music shown above

.....

- (b) Give any **one** way in which music stored using the above method can be reproduced.

.....

- (c) Apart from the above method, mention any **one** other method of storing music.

.....

- (d) State the difference between pitch and volume of sound.

.....

43. (a) Give the importance of carrying out each of the following practices in sheep keeping.

(i) hoof trimming.

.....

(ii) docking.

.....

(b) State any **two** ways of controlling tick borne diseases in sheep.

(i)

(ii)



44. (a) Write down any **two** causes of soil exhaustion.

(i)

(ii)

(b) Give any **one** characteristic that makes clays soil suitable for making ceramics.

.....

(c) Apart from making ceramics, state any **one** other way in which clay soil is useful to people.

.....

45. The table below shows parts of a flower and their functions but in wrong order.

Part of a flower	Function of the part
(i) Sepal	receives pollen grains during pollination.
(ii) Anther	attracts insects for pollination
(iii) Stigma	protects the flower during bud stage
(iv) Petal	produces pollen grains.

Match the parts of a flower in the table above with their functions correctly.

- (i) Sepal
.....

(ii) Anther
.....

(iii) Stigma
.....

(iv) Petal
.....

46. (a) In which way does severe diarrhea lead to dehydration?
.....

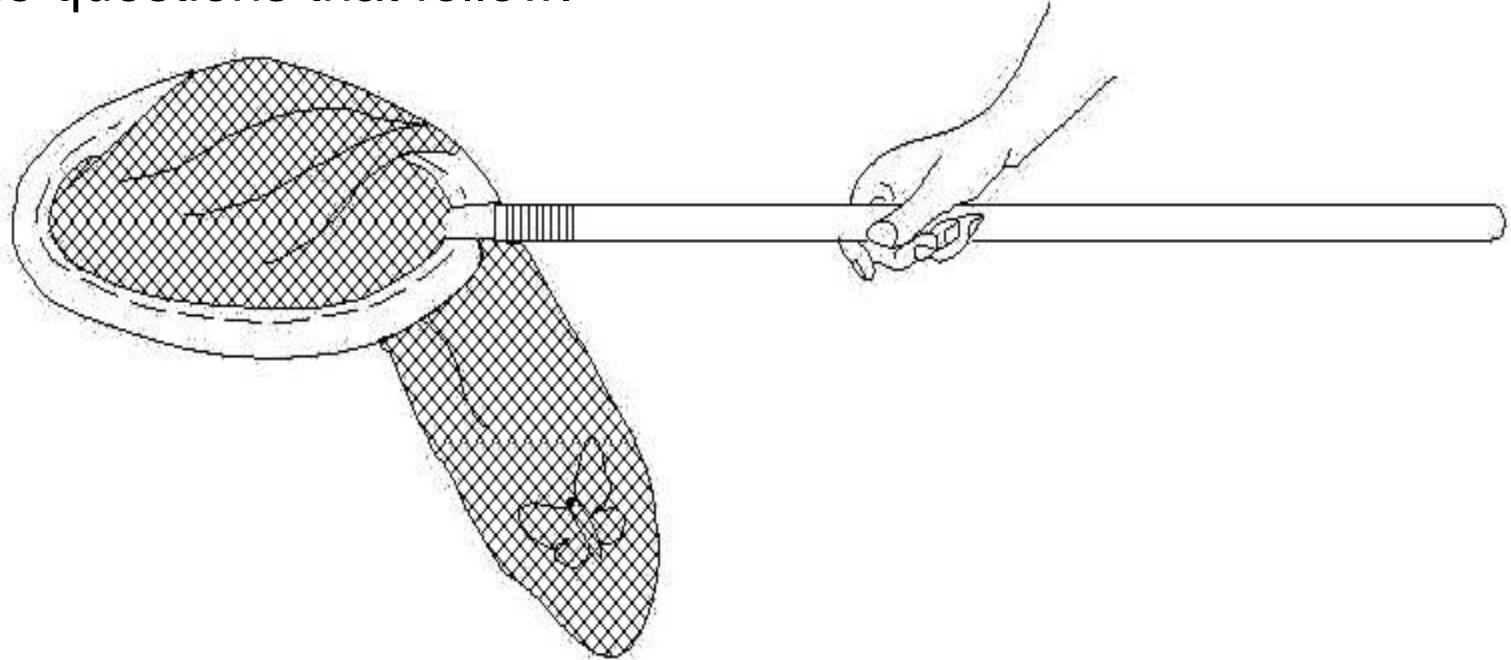
(b) State the importance of sugar when preparing Oral Rehydration Solution (ORS).
.....

(c) Apart from giving Oral Rehydration Solution, state any **two** other ways of rehydrating a patient with severe diarrhea.
(i)
(ii)



47. (a) Name the group of crops to which each of the following crops belongs.
- (i) bean crops
- (ii) rice crops
- (b) Give any **two** ways in which weeding is done in the garden.
- (i)
- (ii)

48. The diagram below is of an equipment used in bee keeping. Use it to answer the questions that follow.



- (a) Name the equipment in the diagram above.
-
- (b) How is the above equipment useful to a bee keeper?
-
- (c) What activity in bee keeping involves the use of the above equipment?
-
- (d) Give any **one** reason why honey does not go bad yet it is food.
-



49. (a) State the role of yeast during fermentation of alcohol.

.....

(b) Apart from fermentation of alcohol, give any **two** other way in which yeast is useful to people.

(i)

(ii)

(c) Which fungus is used to make antibiotic drugs?

.....

50. (a) Give the importance of each of the following in a home,

(i) a rubbish pit

.....

(ii) a rack

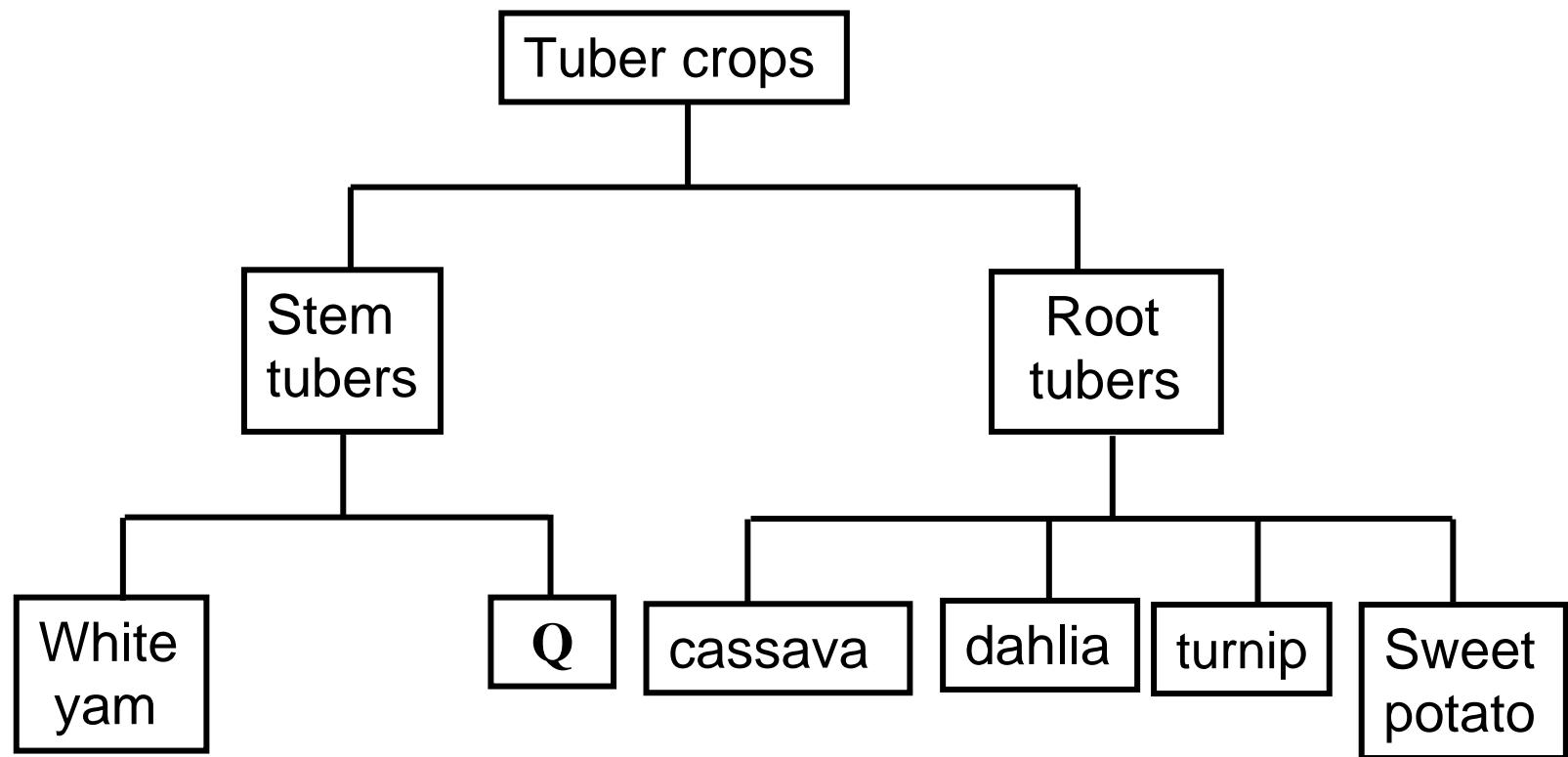
.....

(b) Mention any **two** other sanitary items that a home should have.

(i)

(ii)

51. The flow chart below shows groups of tuber crops. Study and use it to answer the questions that follow.



- (a) Name the example of stem tuber marked Q.

.....

- (b) State any **one** characteristic common to all root tubers.

.....

- (c) In which way is the propagation of cassava different from that of a white yam?

.....

.....

- (d) Why is a sugarcane plant not grouped under stem tubers yet it stores its food in the stem?

.....

.....

52. (a) In which way is the function of a fuse different from that of a switch in an electric circuit?

.....
.....

- (b) Apart from a fuse and a switch, write down any **two** other components of an electric circuit.

(i)

(ii)

- (c) State the main reason why the **tungsten** filament of an electric bulb is coiled.

.....
.....
.....



53. (a) State any **one** way in which rocks contribute to the development of an area.

.....

- (b) Apart from rocks, name any **one** other example of a non-renewable resource in the environment.

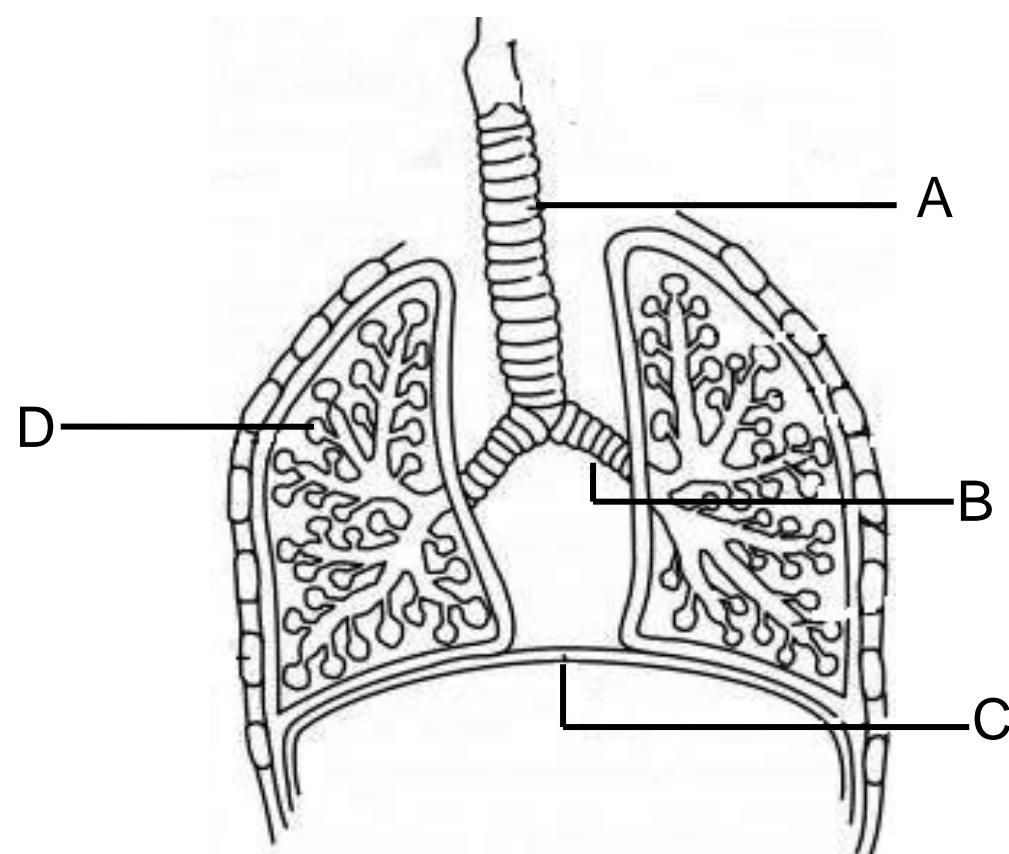
.....

- (c) State any **two** ways of conserving non-renewable resources in the environment.

(i)

(ii)

54. The diagram below shows a human respiratory system. Study it carefully and use it to answer the questions that follow.



(a) Name the parts marked **B** and **C**.

(i) **B**

(ii) **C**

(b) What process takes place in part marked **D**?

.....

(c) State any **one** way in which part marked **A** is adapted to its function.

.....

.....

55. (a) State any **one** cause of rickets in children.

.....

(c) Write down any **two** signs of rickets in a child.

(i)

(ii)

(b) Give any **one** example of food you would give to a child to protect him/her against rickets.

.....



SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the body organ that enables a primary one pupil to sense the nice smell from the kitchen.

.....

2. State **one** way of controlling mosquitoes at the larva stage.

.....

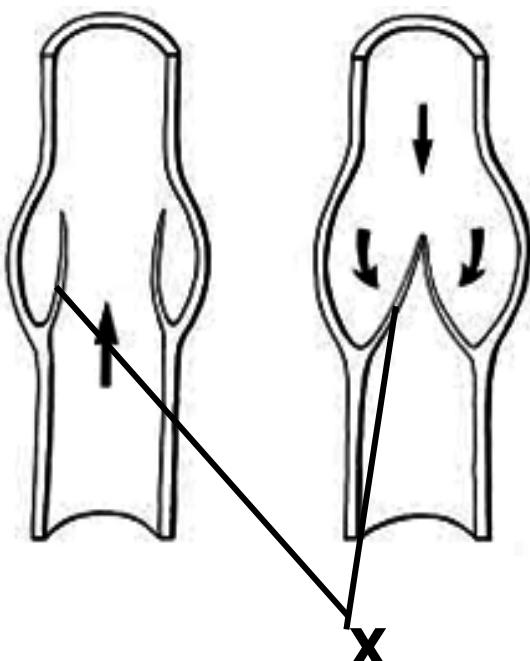
3. What type of change is destructive to iron and steel metals?

.....

4. Name the class of food recommended by Mr. Agaba who is a brick maker to eat.

.....

The diagram below shows blood vessels. Use it to answer questions **5** and **6**.



5. Identify the type of blood vessel shown above.

.....

6. State function of structures marked **X** in the above blood vessel.

.....

7. How is a swim bladder useful to a fish?

.....

8. Which part of a caterpillar has the same function as the hard shell of a snail?

.....

9. State the importance of some water that remains in a toilet bowl after flushing.

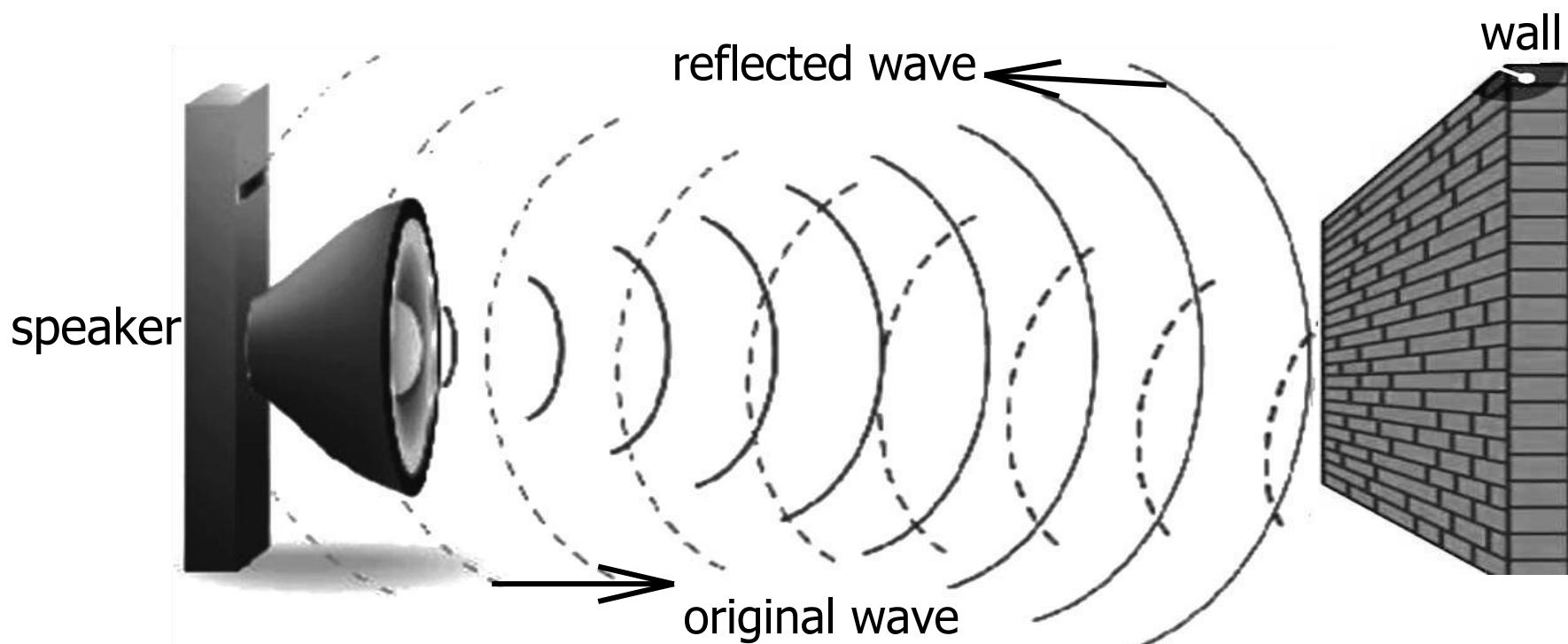
.....

10. Why does water exist in all three states of matter?

.....



The diagram below is of a property of sound. Use it to answer questions **11** and **12**.



11. State the property of sound shown above.

.....

12. In which **one** way is the above property of sound useful to bats?

.....

13. In which way do bacteria help in the production of yoghurt?

.....

14. Give any **one** example of a farm animal that is castrated.

.....

15. Apart from spreading diarrheal diseases, state **one** other way houseflies are dangerous to man.

.....

16. Which characteristic makes sand soil best for building houses?

.....

17. How is a humming bird different from other birds in terms of flight?

.....

.....

18. Give the major cause of child poisoning at home.

.....

19. State any **one** way an individual can participate in primary Health Care.

.....

20. Give any **one** way early planting is advantageous to a crop farmer.

.....



21. State any **one** danger a primary six girl can face while putting on dirty Knickers.

.....

22. How does a dog benefit from bringing out its tongue while running?

.....

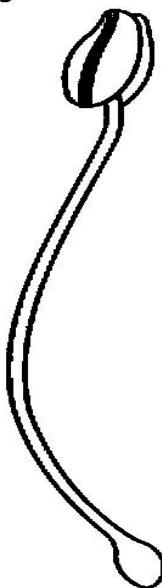
.....

23. In which part of the female reproductive system does conception take place?

.....

24. Give **one** biological method of controlling crop pests in the garden.
-

The diagram below shows a reproductive part of a flower. Use it to answer the questions **25** and **26**.



25. Identify the reproductive part of the flower shown above.
-

26. Use letter **P** to label the part that produces substances similar to sperms in animals.

27. How does salting help in the preservation of meat?
-

28. Why is boiling water considered the best method of making water safe for drinking?
-

29. Name the sexually transmitted diseases that can lead to madness at later stages if not treated early?
-

30. What happens to the weight of an object when immersed in water?

.....

.....



31. Why is polio vaccine given more than once to children?

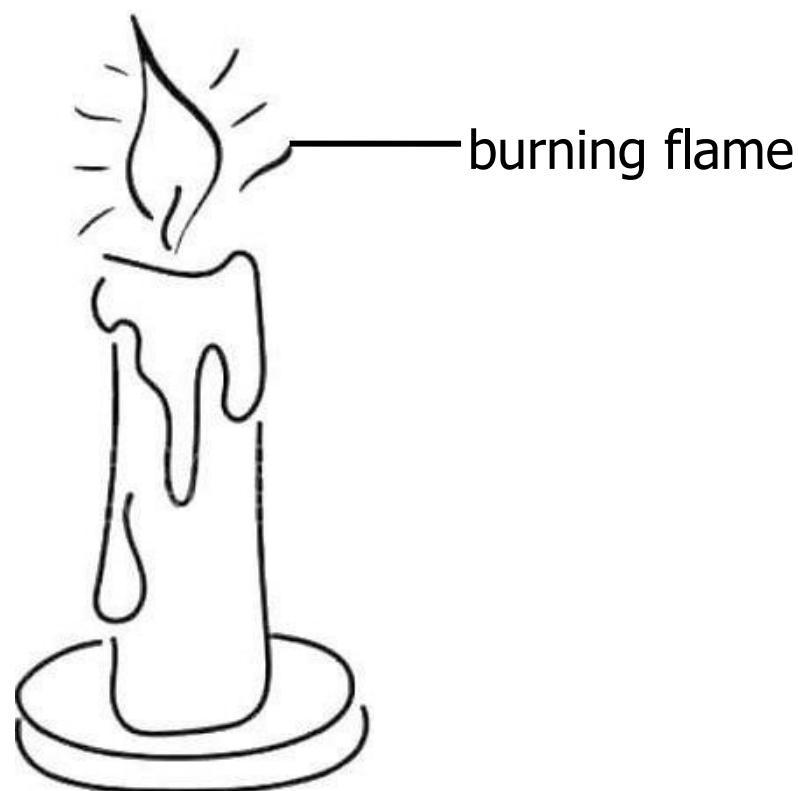
.....

32. How are the gills of a fish different from the gills of a mushroom in terms of their function?

.....

.....

The diagram below is of a burning candle wax. Use it to answer questions **33** and **34**.



33. Why would the flame go off when the candle wax is covered with a container?

.....

34. Give any **one** danger of using a candle wax at home.

.....

35. A part from debeaking, state any **one** other way of preventing egg eating in poultry

.....

36. How is a worker Bee able to carry pollen from flowers?

.....

37. Name the gas used by leguminous plants to make proteins.

.....

38. Which instrument is used to measure air pressure?

.....

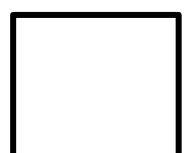
39. Why does salt disappear when put in water?

.....

.....

40. What structure is used by a causality to support him/her while walking in case of a fractured leg?

.....



SECTION B: 60 MARKS

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

41. (a) What type of change is evaporation?

.....

- (b) Give any **two** factors that affect the rate of evaporation.

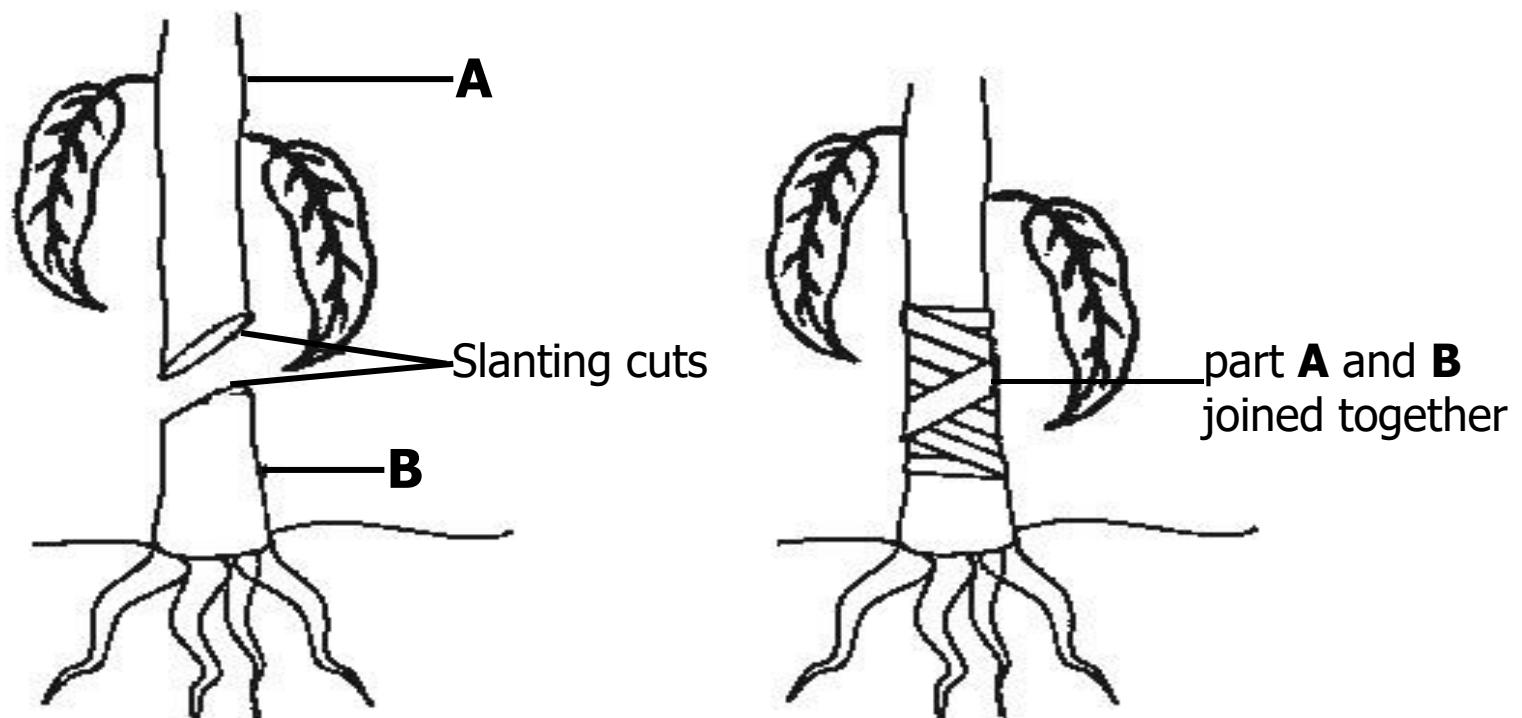
(i)

(ii)

- (c) State any **one** way in which evaporation is applied in our daily life.

.....

42. The diagram below shows a method of vegetative propagation. Use it to answer the questions that follow.



- (a) What method of vegetative propagation is shown above?

.....

- (b) Name the part marked **A**.

.....

(c) Apart from the above method, state any **one** other method of vegetative propagation.

.....

(d) Give any **one** advantage of vegetative propagation.

.....

43. (a) Give the role of each of the following during digestion.

(i) Saliva

.....

(ii) Tongue

.....

(b) State any **two** characteristics of enzymes.

(i)

(ii)



44. (a) How does prolonged breast feeding promote family planning at home?

.....

(b) Apart from prolonged breast feeding, name any **two** other methods of family planning

(i)

(ii)

(c) Give any **one** advantage of family planning.

.....

45. (a) Mention **two** methods of harvesting rain water at home.

(i)

(ii)

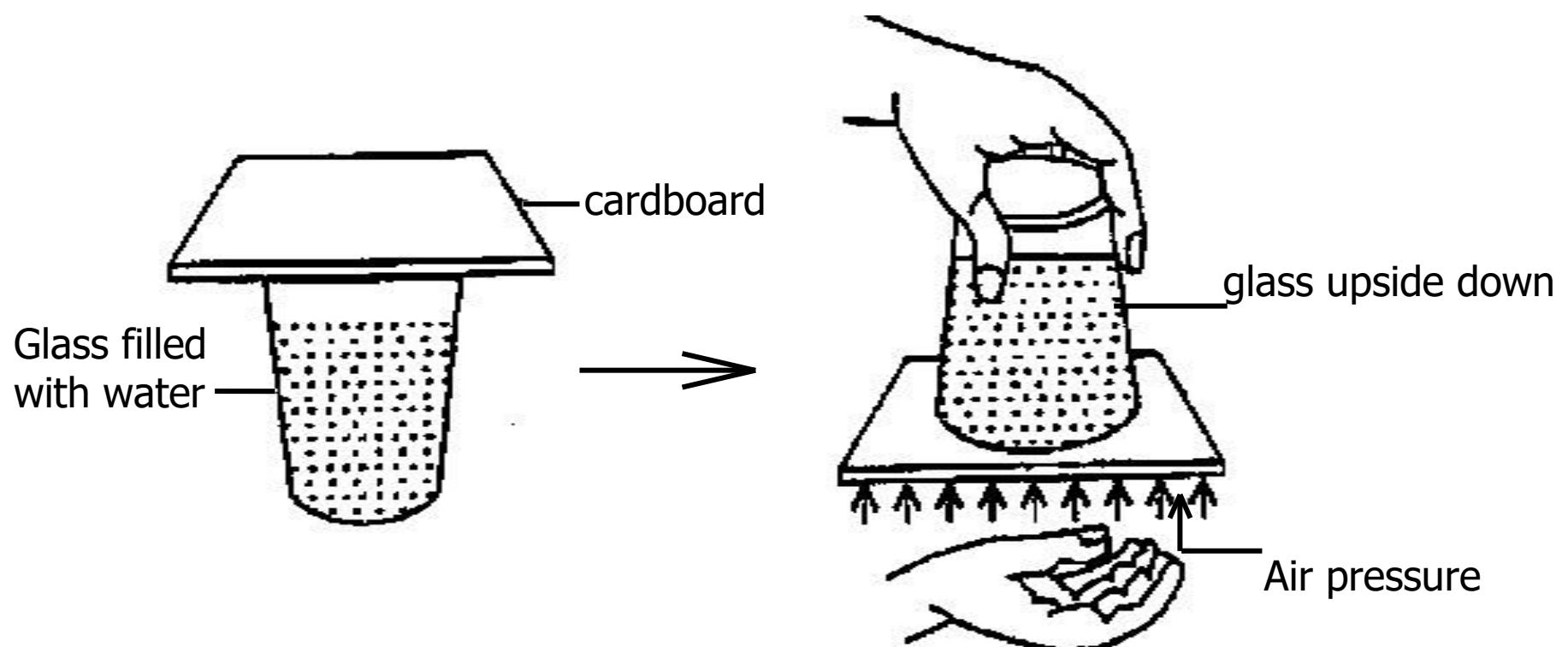
(b) Give any **one** way in which water is useful to a mechanic.

.....

(c) State any **one** danger of water to people.

.....

46. The experiment below shows a property of air. Study it carefully and use it to answer the questions that follow.



(a) Identify the property of air shown above.

.....

(b) Why doesn't water pour out of the glass?

.....

.....

(C) State the role of the cardboard in the above experiment.

.....

(d) Give any **one** application of the above property of air in our daily life.

.....

47. (a) Name the group of invertebrates to which each of the following animals belongs.

(i) Star fish

(ii) Jerry fish

(b) State any **two** ways in which invertebrates help to promote people's health.

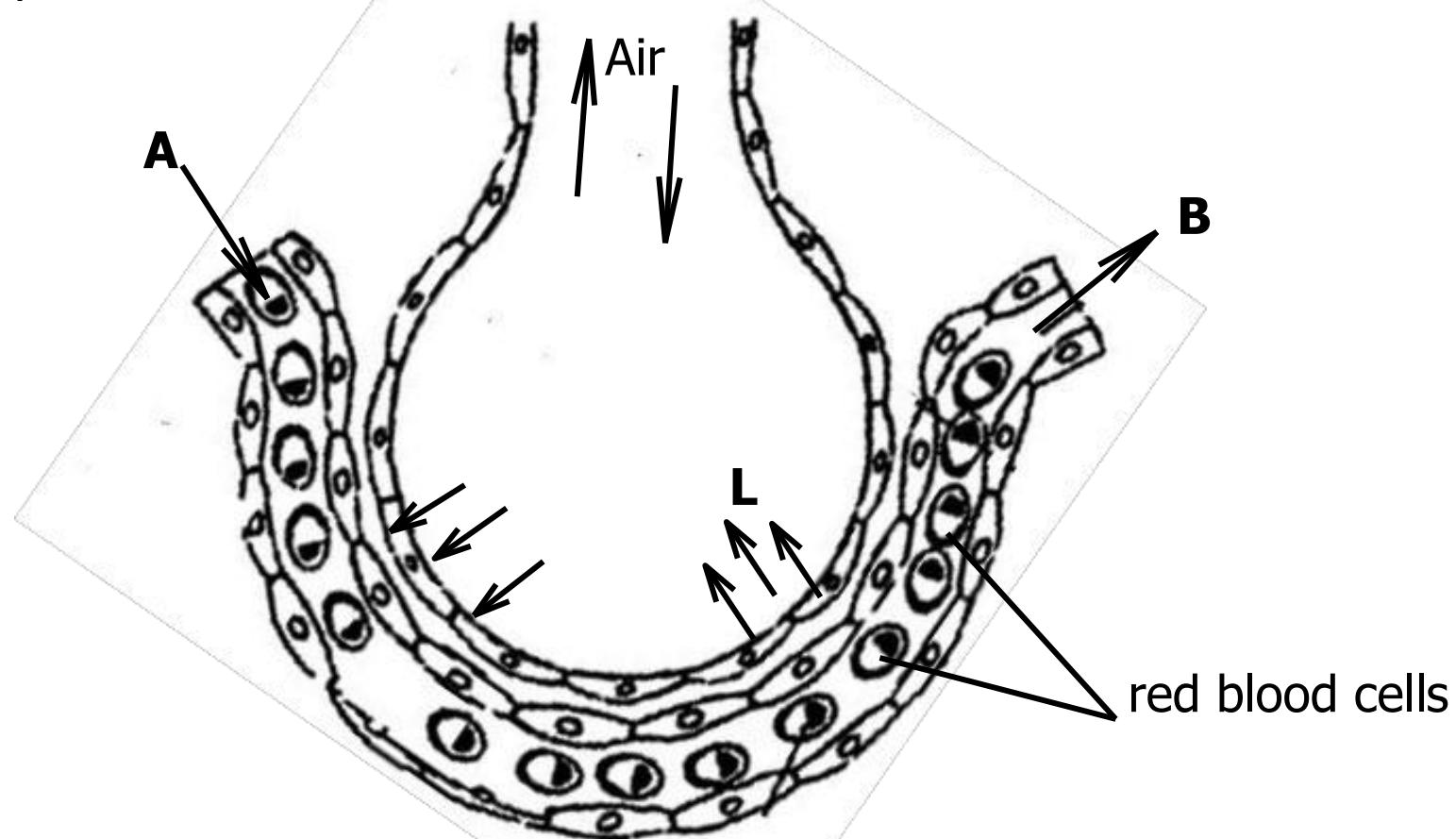
(i)

(ii)

48. The table below shows farm practices, animals and function of the practice, Study and complete it correctly.

PRACTICE	ANIMAL	FUNCTION OF THE PRACTICE
(ii)	piglets	Prevents injuries on the teats of the sow
(i) Docking	Sheep
(iv) Steaming up	Cows, nanny goats, sows, ewe.
(iii) Dehorning	Reduces injuries among animals

49. The diagram below shows part of the respiratory system. Use it to answer the questions that follow.



(a) Identify the part of the respiratory system shown above.

.....

(b) Name the gas marked with letter L.

.....

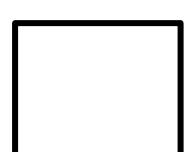
(c) In which **one** way is the above part adapted to its function?

.....

(d) How is blood in A different from that in B?

.....

.....



50. (a) State any **two** effects of alcohol to an individual.

(i)

(ii)

(b) Give any **two** ways in which a health worker uses alcohol.

(i)

(ii)

51. (a) Give any **one** example of an alloy.

.....

(b) How does painting metals prevent them from rusting?

.....

(c) A part from alloying metals, state any **two** ways of conserving non-renewable resources.

(i)

(ii)

52. (a) Apart from moving animals, mention any **two** other agents of soil erosion.

(i)

(ii)

(b) State any **two** ways of controlling soil erosion in hilly areas.

(i)

(ii)



53. (a) Mention any **two** examples of water cleaned diseases.

(i)

(ii)

(b) Give any **two** ways of preventing water cleaned diseases.

(i)

(ii)

54. (a) How are the following materials useful in the promotion of personal hygiene?

(i) Nail cutter

.....

(ii) Sponge

.....

(b) Give any **one** disease that can spread due to poor personal hygiene.

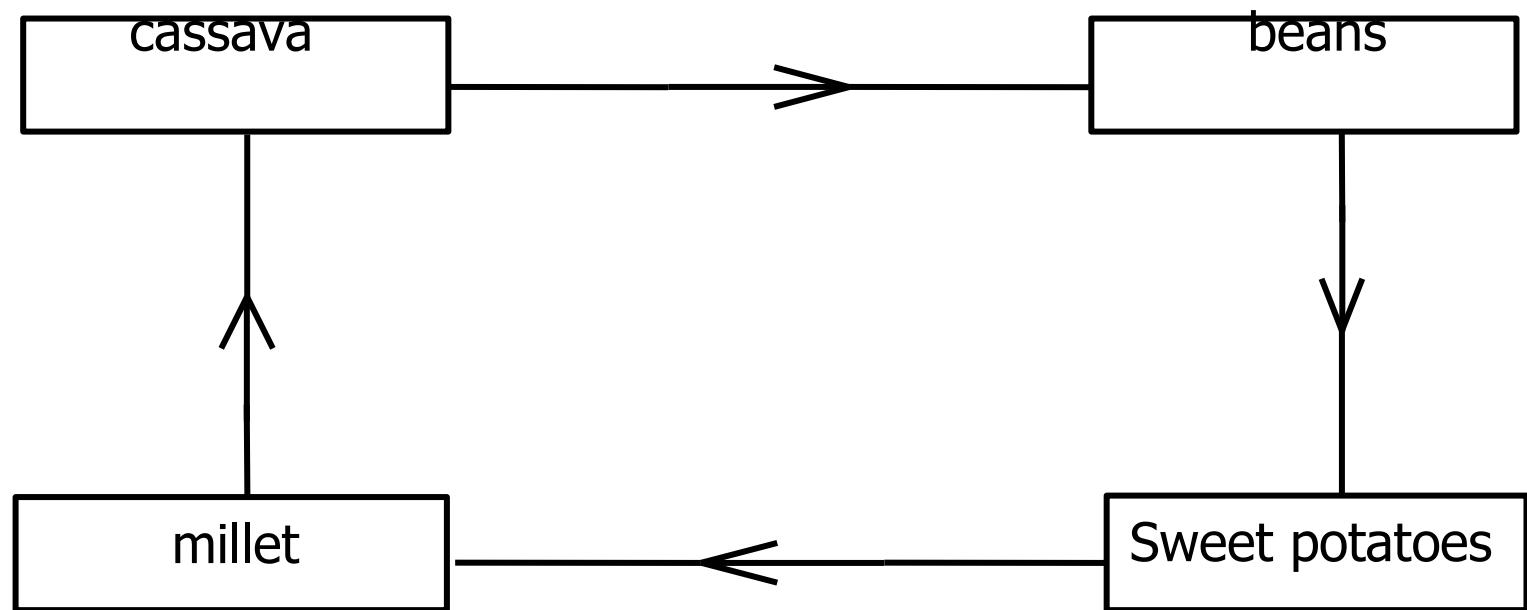
.....

(c) How does regular bathing help to promote personal hygiene?

.....

.....

55. The diagram below shows a farming practice. Use it to answer the questions that follow.



- (a) Name the farming practice shown above

.....

- (b) How does the above farming practice help to control pests?

.....

.....

- (c) Apart from controlling crop pests, State any **one** other advantage of the above farming practice.

.....

- (d) Why are beans included in the above farming practice?

.....





SECTION A: 40 MARKS

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

1. What gas occupies the greatest percentage in the atmosphere?

.....

2. Which disease is spread by fresh water snails to people?

.....

3. How is a dustbin useful in the classroom?

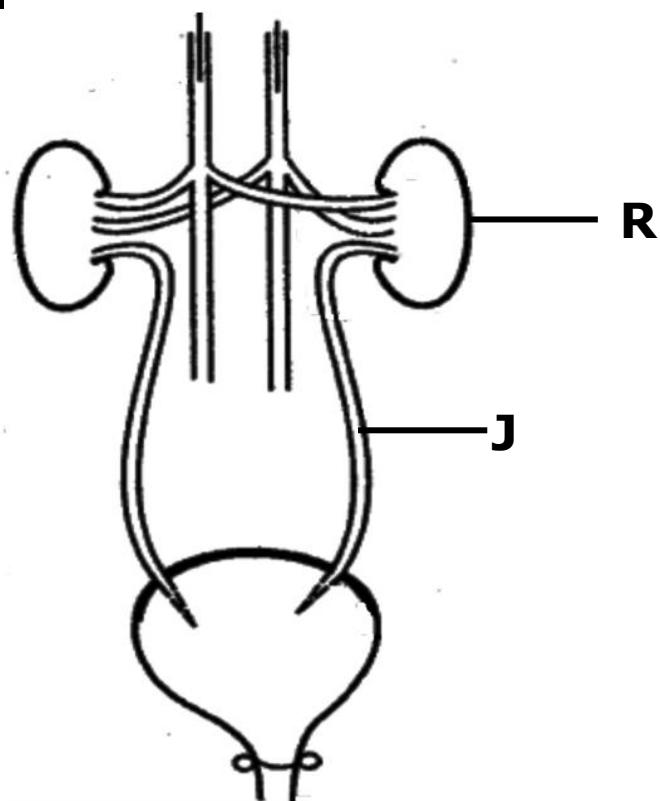
.....

.....

4. Give any **one** example of a non renewable energy resource in the environment.

.....

The diagram below is of the human urinary system. Study and use it to answer questions **5** and **6**.



5. Name the part marked **J**.

.....

6. State the function of part marked **R**.

.....

7. Which group of birds help to clean the environment?

.....

8. Mention any **one** breed of sheep that is kept for wool production.

.....

9. What type of eclipse occurs when the moon comes between the sun and the earth?

.....

10. State any **one** way in which earthworms are important in the soil.

.....



11. How are red blood cells useful in the process of blood circulation?

.....

.....

12. Name the component of the environment that provides oxygen to people.

.....

.....

13. State any **one** characteristic of the ileum which makes it suitable for its function.

.....

.....

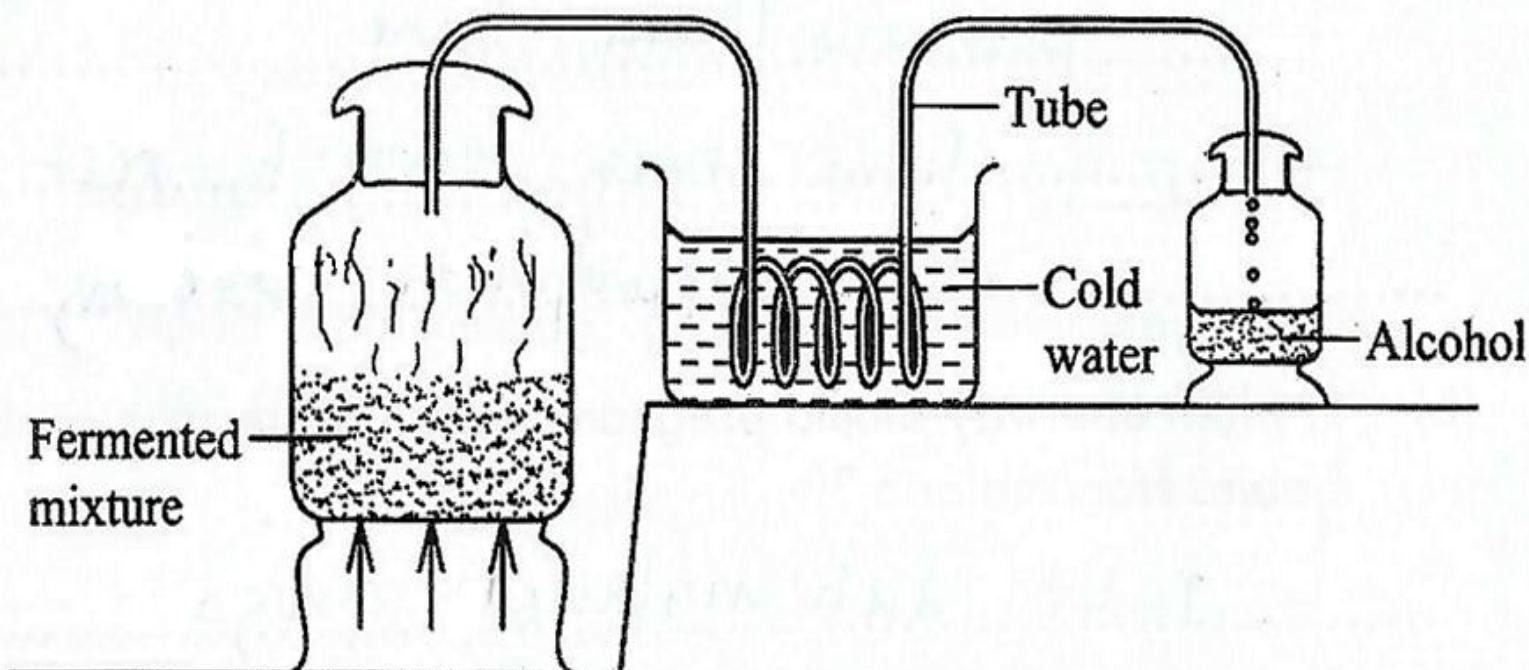
14. How best can a primary seven candidate protect him/herself from contracting Sexually Transmitted Diseases?

.....

.....

15. Which communicable intestinal disease is characterized by blood stains in faeces?

The diagram below shows a method of making alcohol. Use it to answer questions **16** and **17**.



16. Name the method of making alcohol shown in the diagram above.

.....

17. Why is the tube passed through cold water?

.....

.....

18. In which way does the sun help in controlling deficiency diseases in human beings?

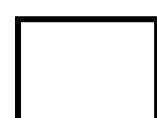
.....

19. Give any **one** way in which you can use craft materials at home.

.....

20. Why are plants called producers in a food chain?

.....



21. State any **one** characteristic of wind pollinated flowers.

.....

22. State the difference in function between a tendon and a ligament.

.....

.....

23. Give any **one** way in which regular bathing is important to the human body.

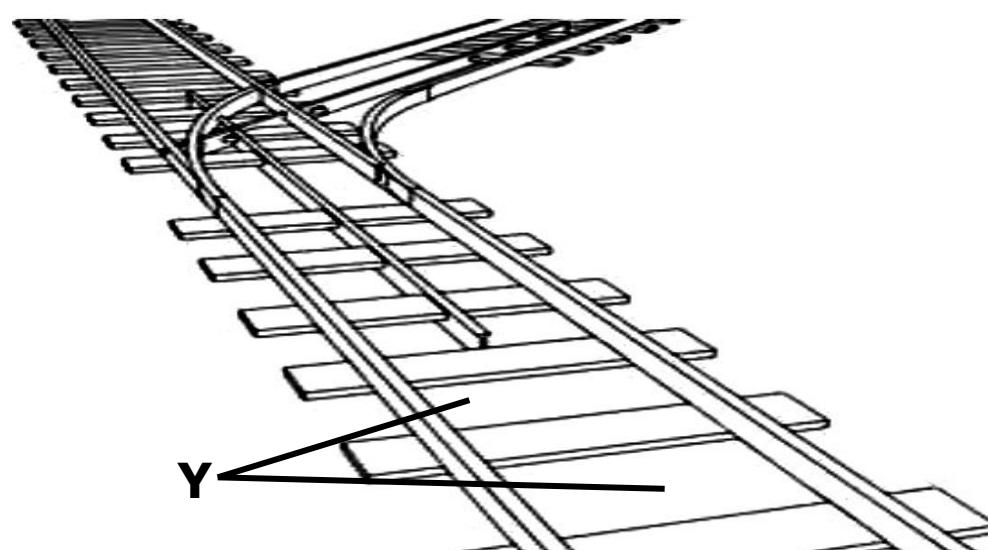
.....

24. How is the mode of reproduction in yeast different from that of mushrooms?

.....

.....

The diagram below shows railway lines. Study and use it to answer questions **25** and **26**.



25. Why are gaps marked **Y** left between the rails during the construction?

.....

.....

26. State what would happen if the gaps marked **Y** were not left between the rails during construction.

.....

27. What is the use of a barometer at the weather station?

.....

28. How is a tourniquet useful when giving first aid?

.....

29. State the importance of root hairs to a bean plant.

.....

30. Name the non contagious disease that attacks the eye.

.....



31. Apart from layers, mention any **one** other class of chicken kept for a specific purpose.

.....

32. State any **one** sign of ear canker in rabbits.

.....

33. Give any **one** factor which determines the strength of the magnet made by electrical method.

.....

34. Why do some objects weight less in water than in air?

.....

35. State any **one** condition which is favourable for a metallic object to rust.

.....

36. Name the garden tool used for harvesting cereal crops

.....

37. Why is it important to fill the vacuum flask with the liquid up to the cork?

.....

38. State any **one** way of preventing antisocial behavior among school children.

.....

39. Apart from carrots, name any **one** other root crop that is propagated by planting seeds.

.....

40. Why is it not advisable to pour chemicals like acid in pit latrines?

.....



SECTION B: 60 MARKS

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

41. a) Name the type of accident that involves the following applications when giving first aid.

(i) tying splints around the broken part.

.....

(ii) dipping the injured part in clean cold water

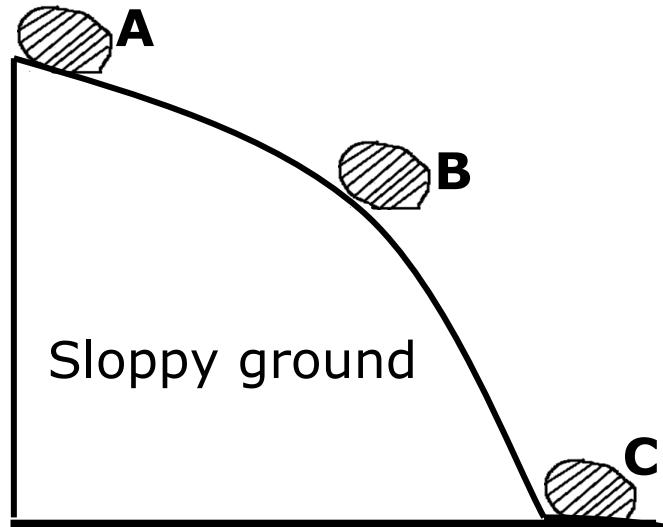
.....

b) State any **two** reasons why casualties should be given first aid.

(i)

(ii)

42. The diagram below shows forms of mechanical energy possessed by a stone on a sloopy ground. Study and use it to answer the questions that follow.



- a) What type of mechanical energy is possessed by the stone at **B**?
-
- b) Why does the stone at **B** posses the type of energy named in (a) above?
-
- c) State any **one** energy change that occurs to the stone at **C**.
-
- d) Mention any **one** form of energy that is produced by the stone when it reaches point **C**.
-

43. a) Write down any **two** reasons why animals produce sound.

- (i)
- (ii)

b) Give any **two** factors that affect the pitch of sound produced by an object.

(i)

(ii)



44. In the table below, Part **A** shows parts of the respiratory system and part **B** has the actions of the parts during breathing in.

Part A	Part B
Ribcage	Its volume increases
Lungs	It moves downwards and flattens
Diaphragm	They expand
Chest cavity	It move upwards and downwards

Use the actions in Part **B** of the table to match the parts below.

(a) Ribcage

(b) Lungs

(c) Diaphragm

(d) Chest cavity

45. a) Mention any **two** activities carried out during health parades.

(i)

(ii)

b) In which **two** ways are regular health parades important to school children?

(iii)

46. a) Write down any **two** characteristics of fish.

(i)

(ii)

b) State any **one** function of each of the following parts to a fish

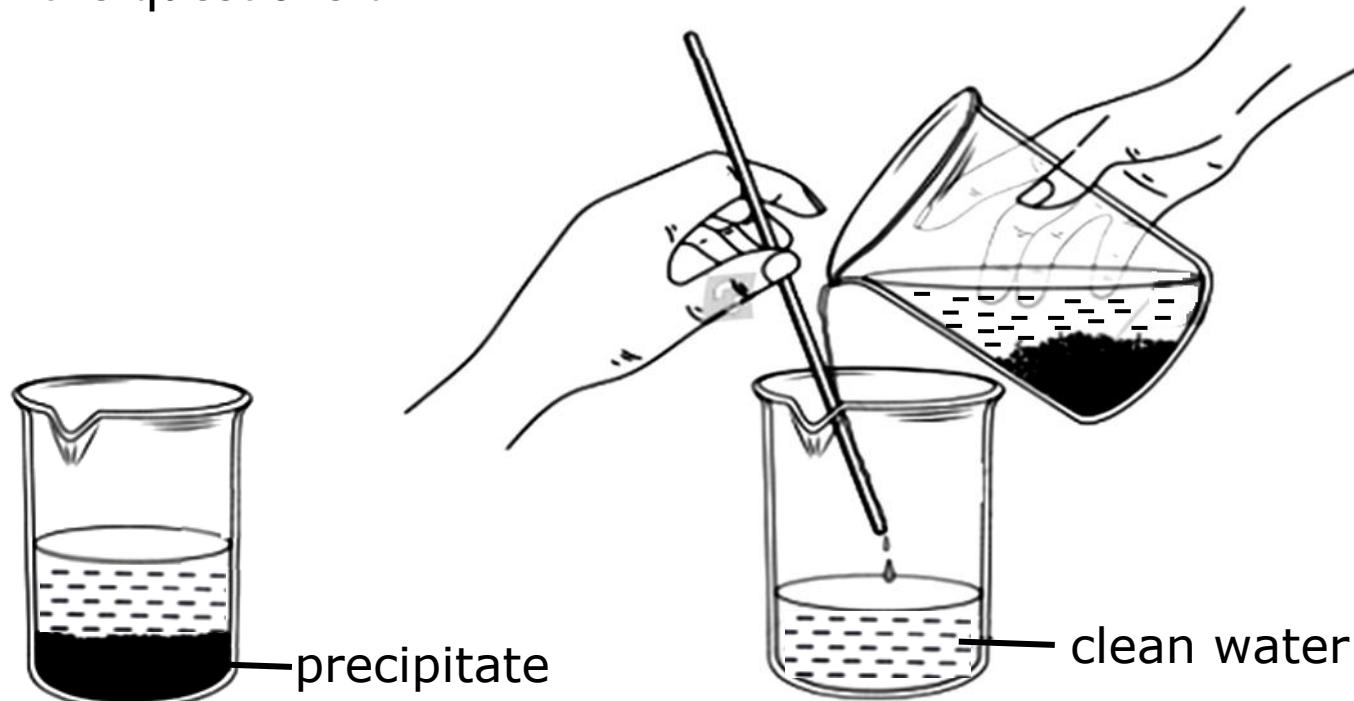
(i) Swim bladder

c)

(ii) Lateral line



47. The diagram below shows a method of making water clean. Study and use it to answer the questions that follow.



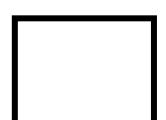
a) Name the method of obtaining clean water shown above.

.....

b) Why is clean water obtained by the above method not good for drinking?

.....

- c) Give any **two** activities at home where the above clean water can be used.
- (i)
- (ii)
48. a) Give any **two** methods of preserving hides from cattle.
- (i)
- (ii)
- b) Mention any **one** product obtained from cattle hides.
-
- c) State any **one** reason why some farmers would prefer rearing local breeds to exotic breeds of cattle.
-
49. a) Write down any **one** activity done by the young farmers clubs in a school.
-
- b) State any **two** ways in which young farmers clubs are important in a school.
- (i)
- (ii)
- c) Apart from young farmers clubs, name any **one** other science oriented club in schools.
-



50. a) Which structure on a modern bee hive separates the honey chamber from the brood chamber?
-

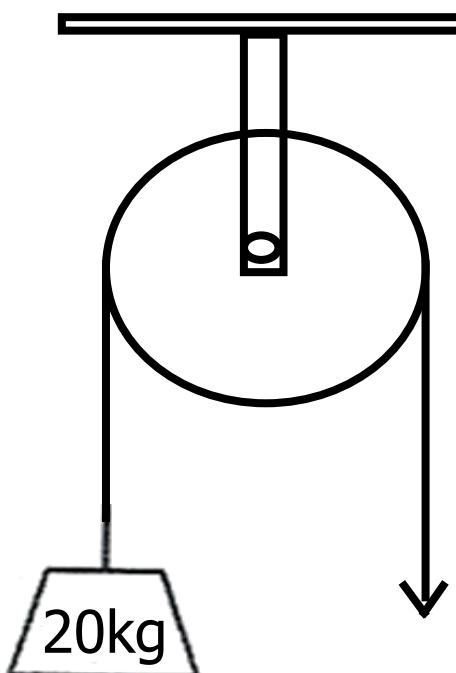
- b) State any **two** conditions that lead to swarming in honey bees.

(i)

(ii)

- c) How are worker bees able to carry pollen from flowers?
-

51. The diagram below shows a type of pulley system. Study and use it to answer the questions that follow.



- a) Name the pulley system above.
-

- b) How does the above pulley system simplify work?
-

- c) Mention any **one** force that makes work difficult when using the above pulley system.

.....

- d) State any one use of the above pulley system at school.

.....

52. a) Mention any **two** diseases that can be treated without using drugs.

(iii)

(iv)

- b) Give any **two** ways of preventing diseases without using drugs.

(i)

(ii)



53. a) Give any **two** causes of silting of water bodies.

(i)

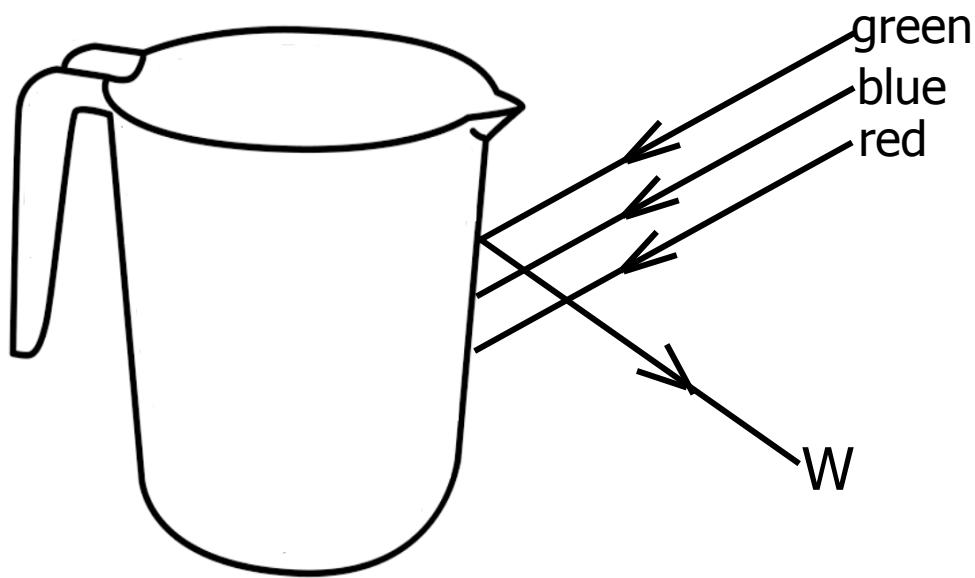
(ii)

- b) Write down any **two** ways of controlling silting of water bodies

(i)

(ii)

54. The diagram below shows light rays of different colours striking a plastic jug. Study and use it to answer the questions that follow.



a) Name the ray of light marked with letter **W**.

.....

b) Identify the colour of the jug.

.....

c) Give a reason for the response you have written in (b) above.

.....

.....

d) What name is given to the above colours on the jug?

.....

55. a) Give any **one** example of food taboo in the community.

.....

b) State any **two** advantages of food taboos in the community.

(i)

(ii)

c) In which **one** way can food taboos affect the health of children?

.....

.....





SECTION A

1. Which organ is affected by trachoma?

2. Which force enables objects to weigh less in water than air?

3. How is fertilization in mammals similar to that in birds?

4. Name the vector for East Coast Fever in cattle.

5. What food deficiency can lead to kwashiorkor?

6. State the type of objects which require the displacement method to get their volume.

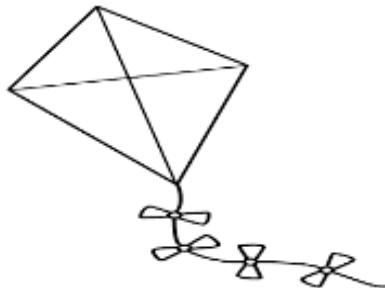
7. Name any one disease which can be controlled by boiling water for drinking.

8. Why are grasshoppers called crop pests?

9. How is burning of rubbish dangerous in the environment?

10. Give any one function of the liver in the body?

Use the diagram of the flying kite below to answer the question that follows.



11. What type of energy does the flying kite have?

12. Which element of PHC does a child promote by a mother breast feeding a baby?

13. State the similarity in function between the kink of the thermometer and the valves in the veins.

14. Give any one reason why crops should be thinned.

15. Mention any one way in which wind is used as an energy resource.

16. Why is filtering of water alone not enough to make it safe for drinking?

17. State the main duty of the master bee in a hive.

18. How can loosening the string affect the pitch of sound?

19. Give the importance of water during seed germination.

20. Where does a cassava plant store its food?

21. State any one use of biogas at home?

22. Which liquid reduces friction in the human joints?

23. What is the function of a bulb in an electric circuit?

24. In the space below, draw a white blood cell.

25. How do trees clean the air around an industry?

26. State what happens when two North poles of magnets are brought together.

27.What term refers to keeping too many animals on a small plot by a farmer?

28.How does bush burning lead to soil erosion?

29.Name any one dangerous substance found in tobacco.

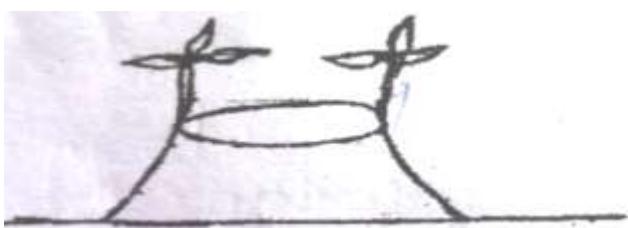
30.Mention any one characteristic of swimming birds.

31.Why are legumes included in crop rotation?

32.Name the disease which causes abortion in cows.

33.How does sound travel from one place to another?

34.Name the method of harvesting trees shown below.



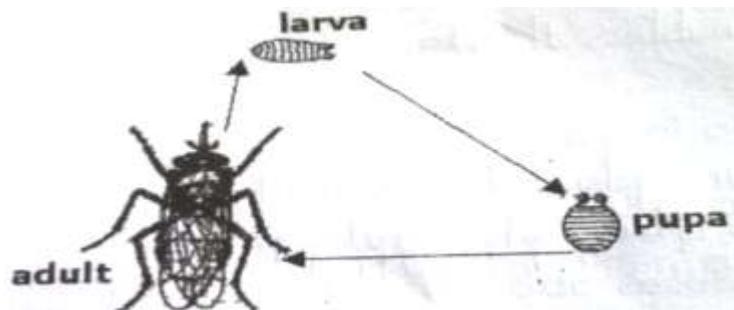
35.State one way of reducing friction between moving parts of machines.

36.Give the role played by the sun during the water cycle.

37.Which part of the skeleton protects the spinal cord?

38.How does the moth detect flowers in the darkness at night?

39.The diagram below shows a life cycle of a common vector. Use it to answer the question about it.



Name the insect that undergoes the life cycle above.

40. State one role of children in a home.

SECTION B

41.a) State any two drugs that can cause addiction.

- i) _____
ii) _____

b) Mention one body organ which is affected by drugs.

c) How can one avoid the drugs mentioned in (a) above?

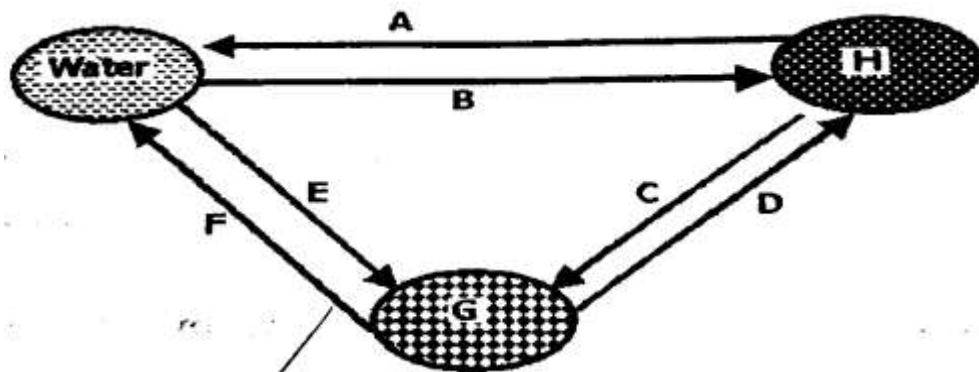
42.a) What is transpiration as used in plant life?

b) Mention the process by which plants absorb water from the soil.

c) Name the part of a plant which mainly carries out photosynthesis.

d) How is the root cap important to the root?

43. The diagram below shows an illustration of change of state of matter. Study and use it to answer the questions that follow.



a) Name the processes A and B.

- i) A _____
ii) B _____

b) Name one process that takes place at low temperature.

c) Name the natural process that involves processes E and F.

44.a) Mention any two internal worms in people.

- i) _____
ii) _____

b) How can internal worms be prevented?

c) State any one effect of internal worms to the human body.

45. Match items in list A correctly with those in list B.

A

- a) Excess protein stored as
- b) Secreted from the pancreas
- c) Produced in the stomach
- d) Increases speed of digestion

B

- Gastric juice
- Enzymes
- Glycogen
- Insulin

- a) Excess protein is stored as _____
- b) Secreted from the pancreas _____
- c) Produced from the stomach _____
- d) Increases speed of digestion _____

46. Heat and light energy are both useful in the lives of organisms in the environment.

- a) State how human health depends on

- i) Light energy _____
- ii) Heat energy _____

- b) How does heat from the sun reach the earth?

- c) Give any one effect of heat on matter.

47.a) State any two natural hazards that lead to the degradation of the environment.

- i) _____
- ii) _____

- b) What health problem is most likely to occur to people living near stagnant water?

- c) How are wetlands useful in the environment??

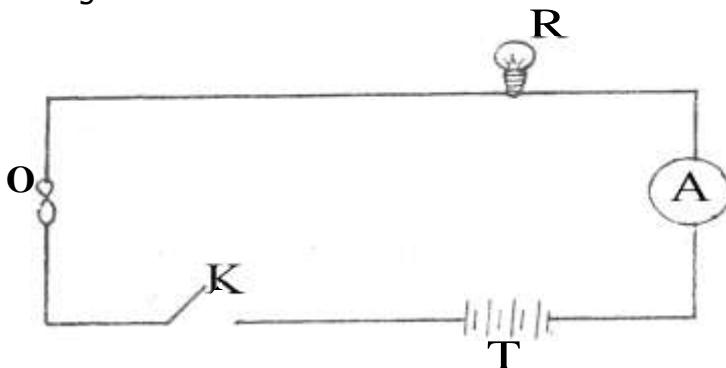
48.a) Mention any two methods of controlling weeds used by farmers.

- i) _____
- ii) _____

- b) State any one reason why farmers weed their gardens.

- c) Name any one example of weeds.

49. The diagram below shows an electric circuit.



a) Name parts marked K and O.

- i) _____
ii) _____

b) What form of energy is stored in T?

c) Use an arrow head to show the direction of current flow.

50.a) Name any two fungi which are useful to human beings.

- i) _____
ii) _____

b) State one way how any of the above fungi is useful to people.

c) How do most fungi reproduce?

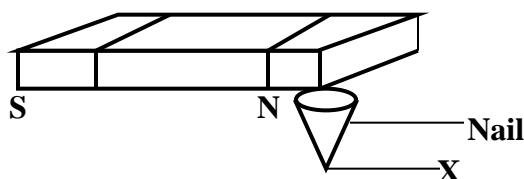
51.a) What is an accident?

b) Mention any two accidents that affect the muscular skeletal system.

- i) _____
ii) _____

c) Name any one disease that affects the muscular skeletal system.

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



a) Name the pole of the nail at x.

- _____

b) How does the nail in the diagram become or get magnetized?

c) What type of magnet does the nail become?

d) Mention any other method of making a magnet.

53.a) What are poultry vices?

b) Give any two examples of poultry vices.

i) _____

ii) _____

c) State any one way of controlling the above vices in poultry.

54.a) Name any two types of cattle.

i) _____

ii) _____

b) Mention any one advantage of keeping local breeds of cattle over exotic ones.

c) Why do farmers practice cross – breeding on their farms?

55.a) What is soil erosion?

b) Write down any two types of soil erosion.

i) _____

ii) _____

c) Mention one method used to control soil erosion in an area.

SECTION A (40 MARKS)

1. Name the sense organ which tells that tea is very sweet.

.....

2. What health problem could arise as a result of rapture of the ear drum?

.....

3. Why is forest conservation encouraged in Uganda?

.....

4. How is a plate stand useful to a family in a home?

.....

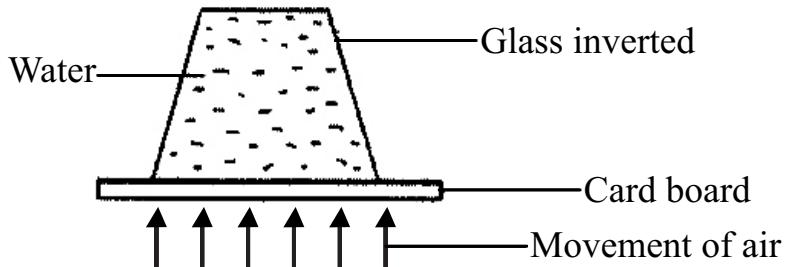
5. Identify the type of joint in the body which gives a wide range of movement.

.....

6. Give **one** advantage of Bio-gas production to the environment.

.....

7. What does the experiment below show?



.....

8. How is a short circuit dangerous in a home?

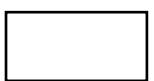
.....

9. State **one** effect of polio disease to an individual.

.....

10. Why is friction said to be a nuisance force?

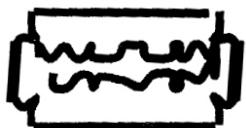
.....



11. How do animals make use of the gas given out by plants during photosynthesis?

.....

12. Identify the simple machine shown below.



13. State any **one** similarity between a Rat and a Bat besides being mammals.

.....

.....

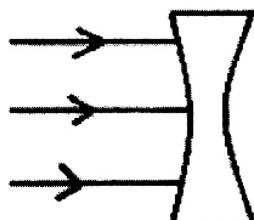
14. Which blood cells are destroyed by a plasmodium germ?

.....

15. How do humans get infected with tape worm?

.....

16. Complete the diagram showing light rays as they leave the lens below.



17. What problem is Jenifer likely to face if she eats food without washing her hands?

.....

18. Why is rubber and plastics used to insulate electric live wires?

.....

19. Name **one** object which floats on water.

.....

20. Which type of teeth is used for cutting food?

.....

21. Which part of the human ear is responsible for balancing the body?

.....

22. How can the volume of irregular objects be measured?

.....

23. Give **one** danger of cultivating crops in wetlands.

.....

24. Why is sandy soil not good for farming?

.....

25. Identify **one** common secondary sex characteristic common in both boys and girls.

.....

26. How is dustbin useful to a P.4 pupil in class?

.....

27. Give **one** method of making a temporary magnet.

.....

28. Give any **one** way in which wind is useful to people as an energy resource.

.....

Use the diagram below to answer question 29.



29. Find the weight of “P” if the lever is balancing.

30. Why is the tying between the heart and injured part a good first aid for a snake bite?

.....



31. Which vector is responsible for spreading sleeping sickness in humans?

.....

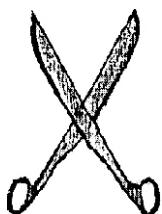
32. A block of mass 24gm has a density of 4gm/cc. Find its volume.

.....

33. Which immunisable disease makes the muscles of a person stiff?

.....

34. On the diagram below, show the position of the pivot with letter P.



35. Mention any **one** importance of saliva in the process of digestion.

.....

36. How is the human skin a useful organ to the body?

.....

37. You are provided with a **hen, grass, locust** and a **hawk**. Arrange them in correct order to come up with a complete food chain.

.....

38. State **one** use of light from the sun in the environment.

.....

39. Give **one** disadvantage of a free range system of rearing animals.

.....

40. How is a vent pipe on a VIP latrine useful?

.....

SECTION B (60 MARKS)

41.(a) Name any **one** example of poultry.

.....

(b) Why do farmers keep dual purpose birds?

.....

(c) Give **one** disadvantage of battery system of rearing birds.

.....

(d) Identify a poultry disease caused by protozoa.

.....

42.(a) What is Dehydration?

.....

.....

(b) Give **one** sign of dehydration.

.....

.....

(c) Mention **one** cause of dehydration.

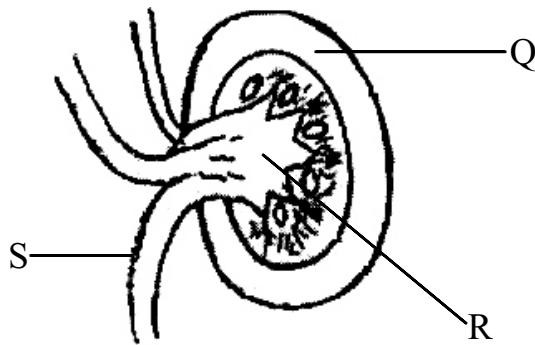
.....

.....

(d) How can dehydration be controlled?

.....

43. The diagram shows a human kidney.



- (a) Name the part labeled **R**.

.....

- (b) What activity is done at **Q**?

.....

- (c) To which part of the body does **S** go?

.....

- (d) Give **one** disease which affects the kidneys.

.....

44. The diagram shows a baby who received immunization.

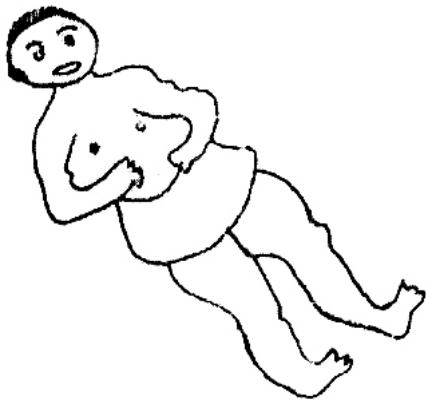
With the help of arrows, show the immunisable sites for;

- (i) DPT Vaccine

- (ii) Measles Vaccine

- (iii) BCG

- (iv) Polio Vaccine



45.(a) What are Organic manures?

.....
.....

(b) Name **two** types of organic manures.

- (i)
- (ii)

(c) Mention any **one** disadvantage of using artificial fertilizers.

.....

46.(a) Give any **two** ways in which animals depend on plants.

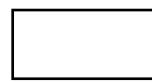
- (i)
- (ii)

(b) Identify **one** way how plants depend on other plants.

.....

(c) Mention **one** way how animals depend on other animals.

.....



47.(a) State **one** difference in germination of Monocotyledonous and Dicotyledonous plants.

.....
.....

(b) Mention **one** condition required for a seed to germinate.

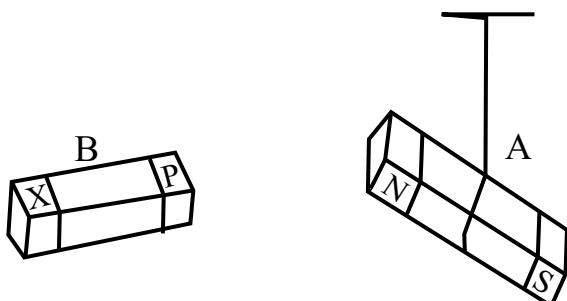
.....

(c) Apart from using chemicals, give **two** ways of controlling pests in a garden.

(I)

(ii)

48. The diagram below shows a freely suspended magnet A and B brought together close to one another. Use it to answer the questions that follow.



(a) Name pole **P** of magnet **B**.

P.....

(b) Why did magnet **A** and **B** remain apart as shown?

.....

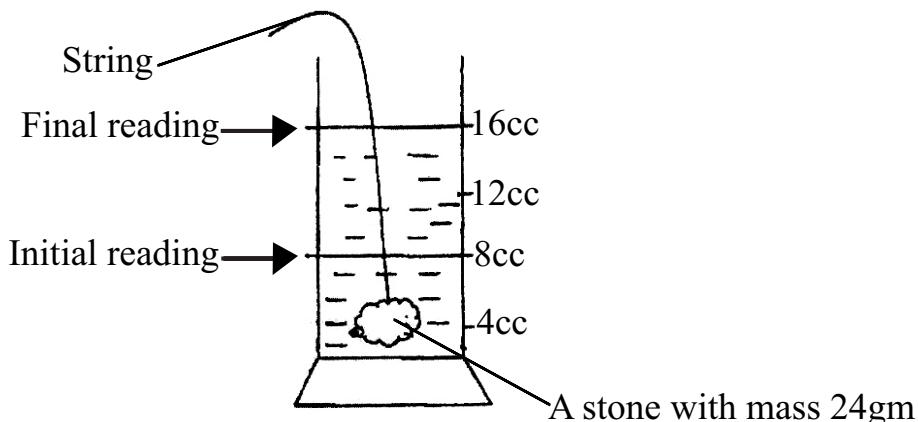
(c) Give **one** way of demagnetizing magnets.

.....

(d) How are magnets useful in the environment?

.....

49. A primary five boy set up an experiment assembly. Use it to answer questions that follow.



- (a) Name the method for experiment set by the P.5 boy.

.....

- (b) Calculate the density of the stone.

(2 Marks)

- (c) Name the container used in the experiment above.

.....

50. Match the diseases in list A to the animals they attack in list B below correctly.

LIST A	LIST B
Newcastle disease	Cattle
African swine fever	Mad dogs
Rabies	Poultry
Rinderpest	Pigs

- (i) Newcastle disease.....
- (ii) African swine fever.....
- (iii) Rabies.....
- (iv) Rinderpest.....

51.(a) How does each of the following animals protect itself from enemies?

(i) Porcupine.

.....

(ii) Wasp.

.....

(b) Name the animal that stays in a;

(i) Sty.

.....

(ii) Den.

.....

52.(a) Use one sentence to state the meaning of each of the following;

(i) Reflection of light.

.....

(ii) Refraction of light.

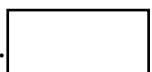
.....

(iii) Spectrum.

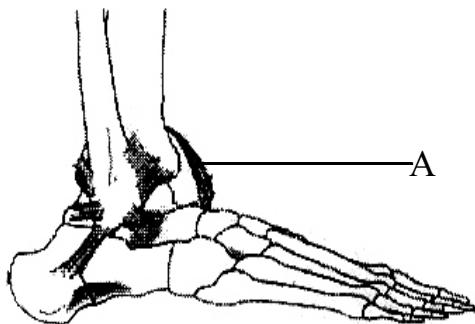
.....

(d) What type of reflection is produced from rough shining surface?

.....



53. The diagram below shows an ankle of a person. Use it to answer the following questions.



(a) Name the part labelled A.

.....

(b) Mike overstretched this part and tore it during an accident. What kind of injury did he get?

.....

(c) What is the possible sign of the injury he got?

.....

(d) Identify the first aid you would give to the above kind of injury.

.....

54.(a) State the effects of alcohol on each of the following;

(i) An individual.

.....

(ii) A family.

.....

(iii) A community.

.....

(b) Mention any **one** life skill that can enable a person to get rid of alcohol.

.....

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

A	B	C	D
FROG	SNAIL	RAT	SNAKE

(a) In which way are animals **A**, **C** and **D** similar?

.....

.....

(b) How is the reproduction of the animal **D** different from that in **C**?

.....

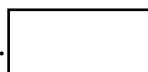
.....

(c) To which class of animal does animal **B** belong?

.....

(d) How does animal **A** protect itself against its enemies?

.....



SECTION A

1. Name the force that enables static electricity to be produced.

.....

2. How are red blood cells important in the human body?

.....

3. State any one property of magnets.

.....

4. Name the dangerous gas found in tobacco smoke.

.....

5. How can cattle farmers improve the quality of their local breeds?

.....

6. In the space provided below, draw a beak of a bird of prey.

.....

7. What name is given to the smallest basic unit of matter?

.....

8. Give one example of an intestinal worm.

.....

9. Give one way of propagating pineapples.

.....

10. What do we call the growth movement of a plant towards light?

.....

11. Why is a person suffering from gonorrhea advised to go with his or her sexual partner for treatment?

.....
.....

12. Mention one example of an energy resource in the environment.

.....

13. Give one modern method used to preserve food.

.....

14. Why is the wind pipe made up of rings of cartilage?

.....

15. State one way the skin regulates body temperature on a hot day.

.....

16. What happens to the volume of water when heat is reduced from it up to below 0°C ?

.....

17. Give one example of an animal whose body temperature changes with change in the temperature of the surroundings.

.....

18. Identify one secondary sex characteristic common to both males and females.

.....

19. Mention one factor that affects the rate of transpiration.

.....

20. Suggest the best way of avoiding the contraction of sexually transmitted infection among teenagers.

.....

21. Why is aluminum preferred to other metals in making of air craft bodies?

.....

22. Mention one natural cause of environmental degradation.

.....

23. To which group of underground stems does an Irish potato belong?

.....

24. Give any one vaccine that is administered to babies at birth.

.....

25. Convert 10°C to $^{\circ}\text{F}$.

26. State the function of hydrochloric acid found inside the stomach.

.....

27. How does mulching control soil erosion?

.....

Study the diagram of the safety equipment below and answer questions 28 and 29.



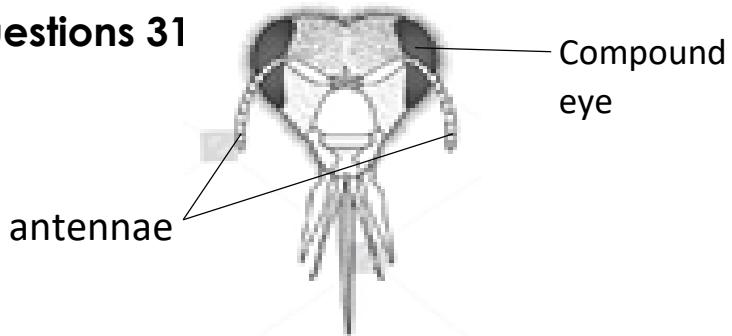
28. Why is the above equipment painted with bright colours?

.....
.....

29. Name the gas used in the above safety device.

.....

The diagram below shows the mouth parts of an insect. Use it to answer questions 31



30. Name the mouth part shown in the diagram.

.....

31. Name one insect with such a mouth part.

.....

32. State the any one difference between mass and weight.

.....

.....

33. Which disorder of the digestive system is prevented by eating a lot of roughage?

.....

34. Why is it important for the cabbage farmer to keep records?

.....

.....

35.What important role is played by the cilia in the nose?

.....

36.Name the organisms that act as producers in a food chain.

.....

37.Identify one pest that destroys maize crops.

.....

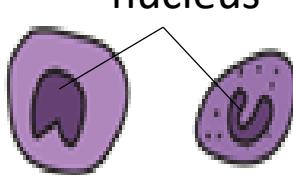
38.Apart from protecting delicate body organs, give any other function of the human skeleton.

.....

39.State one danger caused by presence of many industries in an area.

.....

The diagram below shows a component of blood. Use it to answer number 40.

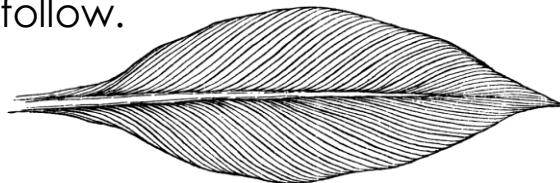


40.Name one disease that affects the component of blood shown above.

.....

SECTION B

41.The diagram below shows a kid of leaf venation. Use it to answer questions that follow.



a) Identify the type of leaf venation drawn above.

.....

b) Name the kind of root system possessed by a plant from which the leaf above was picked.

.....

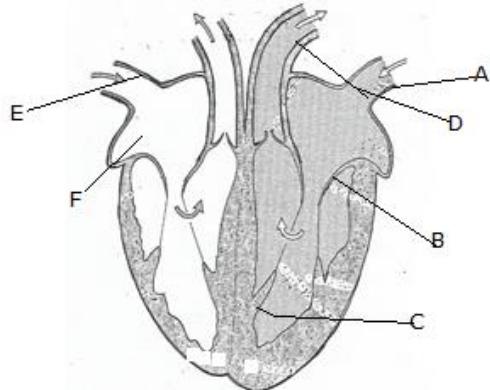
c) Give one example of a plant with the above mentioned root system.

.....

d) Give another type of leaf venation besides the one shown above.

.....

42. The diagram below shows the heart. Use it to answer question that follow.



a) Name part labeled C.

.....

b) Which type of blood is carried by blood vessel A?

.....

c) Using arrows show the flow of blood through the heart.

d) Give one way of maintaining the proper functioning of the above organ.

.....

43. a) What is seed dispersal

.....

.....

b) How is seed dispersal useful to plants?

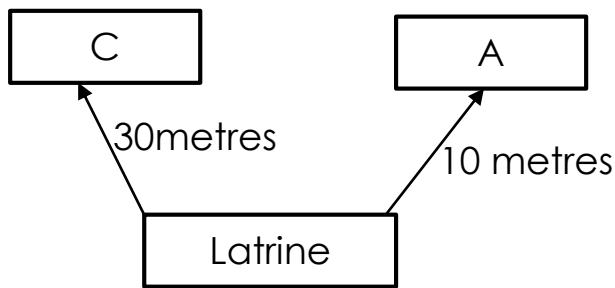
.....

c) Give any two agents of seed dispersal.

i)

ii)

44. Construction of a latrine is one way of maintaining or improving sanitation at home. Study the diagram below carefully and use it to answer the questions that follow.



a) Identify the items that are supposed to be constructed at A and C.

(i) A

(ii) C

b) Why should a pit latrine be 30metres away from C?

.....

.....

c) Mention one health problem caused by lack of proper sanitation in the community.

.....

45. a) Give two examples of wood fuel.

i)

ii)

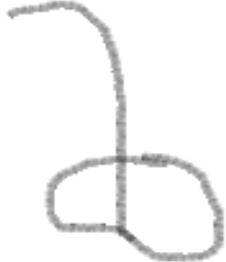
b) State one way of conserving wood fuel.

.....

c) Why are plants called renewable resources?

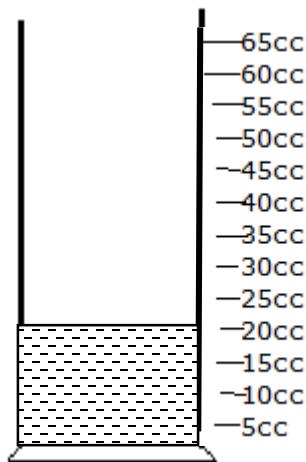
.....

46. The mass of the stone below is 240g and its volume is 30cc.



a) Calculate the density of the block. **(2marks)**

b) if the block was later immersed into the measuring cylinder below. Complete the diagram by drawing the block in the measuring cylinder below. **(2 marks)**



47. a) How is poultry different from poultry keeping?

.....

.....

.....

b) Give two examples of poultry.

i)

ii)

iii) c) Mention one disease that affects poultry on a farm.

.....

48.a) State the importance of each of the following in administration first aid.

(i) splints

.....

.....

(ii) arm sling

.....

.....

b) How is a sprain different from a strain?

.....

.....

c) Why are schools encouraged to only give first aid and not treatment to learners at school?

.....

.....

49.a) Identify one example of a modern hive?

.....

.....

b) State the importance of a queen excluder in a hive.

.....

c) Give the role played by each of the following types of bees in a hive.

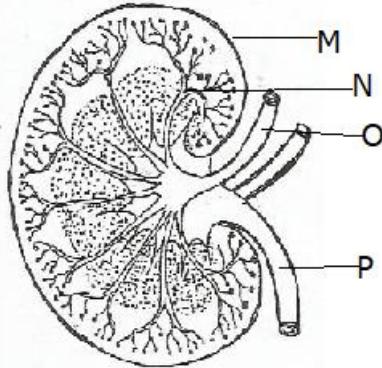
(i) Drone bees

.....
.....

ii) Worker bees

.....
.....

50. The diagram below shows a human kidney. Use it to answer questions 50.



a) Name parts marked O and P.

O

P

b) What important process takes place in part M?

.....
.....

c) Identify any one disease that affects the above organ.

.....
.....

51. How does each of the following animals protect itself against its enemies?

a) tortoise

.....
.....

b) wasps

.....
.....

c) millipede

.....
.....

d) caterpillar

.....
.....

52. Match items in list A to those in list B correctly.

A

B

- | | |
|-----------------------------|---------------------|
| (i) Nuclear electricity | Fast flowing water |
| (ii) Geothermal electricity | Burning fossil fuel |
| (iii) Hydroelectricity | Hot rocks |
| (iv) Thermal electricity | Uranium |

- | | |
|----------------------------|-------|
| i) Nuclear electricity | |
| ii) Geothermal electricity | |
| iii) Hydroelectricity | |
| iv) Thermal electricity | |

53.a) Name the form of energy that stimulates the sense of hearing.

.....

b) Give one importance of the form of energy named above.

.....

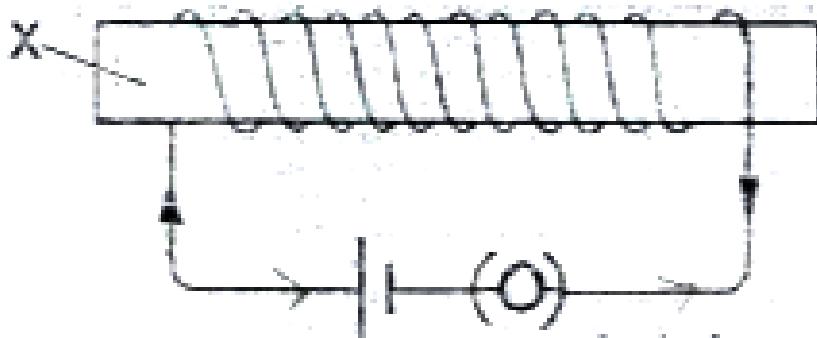
c) Mention one way of storing the form of energy mentioned above.

.....

d) Point out one device used to reproduce sound.

.....

54. The diagram below shows a method of magnetization.



a) Name the method of magnetization shown above.

.....

b) Determine pole at X.

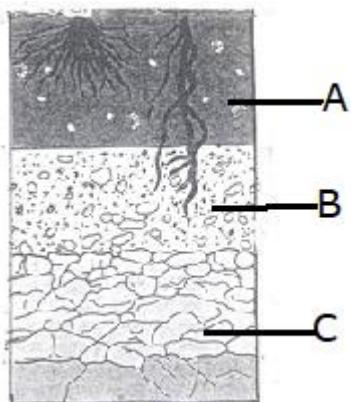
.....

c) Give two ways of increasing the strength of magnet made using the above method.

i)

ii)

55. The diagram below shows the arrangement of soil layers. Use it to answer questions that follow.



a) Name layer marked C.

.....

b) Why is layer marked A regarded as the best for plant growth.

.....

.....

c) Name the microorganism that help to form layer A.

.....

.....

c) Define the term soil profile.

.....

.....

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the sense organ for tasting.

.....

2. What is personal hygiene?

.....

.....

3. State the main source of heat.

.....

4. Which class of food helps to build the body?

.....

5. Suggest one way of preventing road accidents.

.....

6. What do we call manufactured food for rabbits?

.....

7. How does friction enable us to write on paper?

.....

8. Name the germ which causes malaria.

.....

9. Why is the polio vaccine given to babies at birth?

.....

10. **Below is a diagram, use it to answer the question that follow.**



Name the structures shown as far as beekeeping is concerned.

.....

11. Mukasa wanted to plant a cactus plant for an experiment.

In which environment could he find it?

.....

12. Write down one exotic breed of rabbits kept in Uganda.

.....

13. Name the gas that keeps a piece of wood burning.

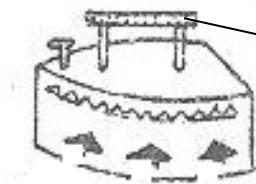
.....

14. Why do some plants climb others?

.....
.....

The diagram below shows an iron box. Study it and answer question

- 15.**



Handle

15. Give a reason why the handle on the iron box above is made of wood.

.....

16. Which mineral salt strengthens our bones and teeth?

.....

17. How can the quality of local breeds of chicken be improved?

.....

.....

18. Identify the food value obtained from eating honey.

.....

19. What is soil profile?

.....

.....

20. Suggest one cause of soil erosion.

.....

21. Name the chief producer of food in a food path.

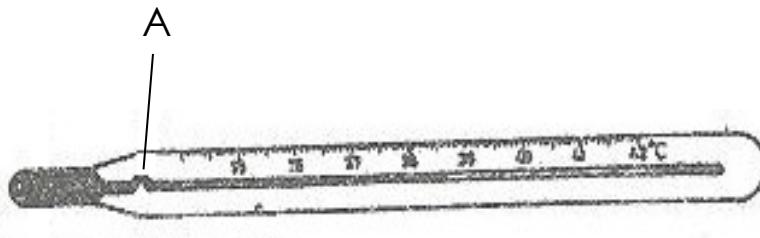
.....

22. What is the use of spiracles to a grasshopper?

.....

23. Convert 60°C to $^{\circ}\text{F}$.

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



24. What is the function of the part marked **A**?

.....
.....

25. How is the above instrument useful to a health worker?

.....
.....

26. Why are the petals of a flower brightly coloured?

.....
.....

27. In the space provided, draw an incisor tooth.

.....
.....

28. Write P.H.C in full.

.....
.....

29. What is transpiration?

.....
.....

30. Which stage is a nymph in the life cycle of a cockroach?

.....
.....

31. Give one quality of a good first aider.

.....

32. What is the use of ventilators in a house?
.....
.....
33. Name one disease which affects bananas.
.....
34. Why are insulators put on electric wires?
.....
.....
35. Why are gaps left in between railway lines?
.....
.....
36. Give one item used to keep our environment clean.
.....
37. Which type of energy is possessed by passengers in a moving car?
.....
38. What name is given to the mixture of two or more metals?
.....
39. State one use of ligaments in the body.
.....
40. Suggest one reason why people eat food.
.....
.....

SECTION B

Questions 41 to 55 carry four marks each.

- 41 (a) What do we call the process by which green plants make their food?
.....
- (b) Name one raw material used in the process named in (a) above.
.....
- (c) How does the process help to purify the environment?
.....
- (d) Name the main product of the process you named in (a) above.
.....

42 (a) What does the term castration mean in cattle rearing?

.....
.....

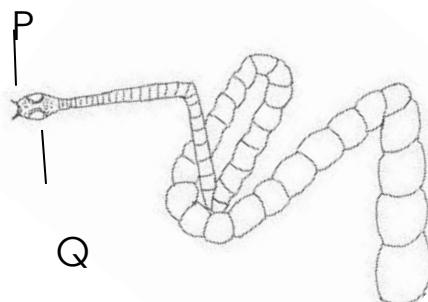
(b) State two reasons why cattle keepers castrate bulls.

- (i)
- (ii)

c) Give one disadvantage of artificial insemination in cattle reproduction.

.....
.....

43. The diagram below is of a tapeworm. Use it to answer questions t



(a) Name the parts labeled **P** and **Q**;

- (i) **P**
- (ii) **Q**

(b) State the use of part **Q** to the worm.

.....

(c) Mention one way a person can get tapeworms into his body.

.....

44(a) State two reasons why people smoke.

- (i)
- (ii)

(b) Name one dangerous gas found in tobacco smoke.

.....

(c) Why would you advise a smoker to stop the habit?

.....
.....

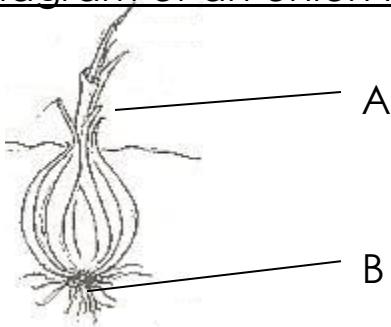
45. Lwasa put four spoonfuls of sugar in a cupful of clean water.
He stirred until the crystals of sugar could not be seen.
- (a) What happened to the sugar crystals?
.....
- (b) What do we call a mixture of sugar and water?
.....
- (c) Apart from sugar, name any other example of a solute.
.....
- (d) If Lwasa wanted to get back his sugar, which method would he use?
.....
- 46(a) What are birds of prey?
.....
.....
- (b) Give one example of birds of prey.
.....
- (c) Why is a free range system of poultry keeping not good in an area where there are many preying birds?
.....
- (d) How is a vulture different from an eagle in terms of feeding?
.....
- 47 (a) Why is a piece of wood called matter?
.....
- (b) In which state of matter is ice at room temperature?
.....
- (c) What is the effect of heat on matter?
.....
- (d) In which state of matter does heat travel fastest?
.....

48. Match the items in List M with those in N.

M	N
Arachnids	centipede
Myriapods	spider
Crustaceans	snails
Mollusc	crabs

- (i) centipede
- (ii) spider
- (iii) snails
- (iv) crabs

49. Study the diagram of an onion below and answer the questions that follow.



(a) Name the parts labeled **A** and **B**.

- (i) **A**
- (ii) **B**

(b) What type of root system does the onion have?

.....

(c) How is an onion propagated?

.....

50 (a) What is immunity?

.....

.....

(b) Identify any two types of immunity?

(i)

(ii)

(c) Give any one symptom of a person whose immunity is very low.

.....

51(a) What is a resource?

.....

(b) Mention one example of a living renewable resource.

.....

(c) Give one way in which man degrades the environment.

.....

(d) Suggest one way man can conserve forests.

.....

52 (a) Which part of a fertilized egg develops into a chick?

.....

(b) Why is an eggshell porous?

.....

.....

(c) Give one reason why some chicken lay eggs that have soft shells.

.....

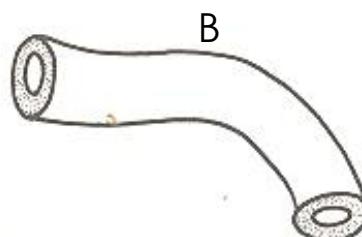
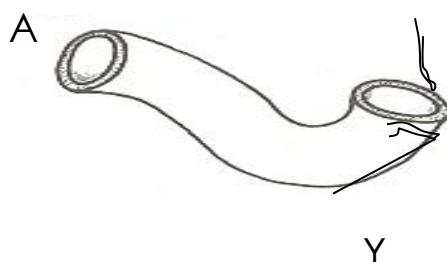
.....

(d) How do layers (in poultry) contribute to the health of people in a community?

.....

.....

The diagrams below show two types of blood vessels. Study them and answer question 53.



53(a) Name the blood vessels shown above.

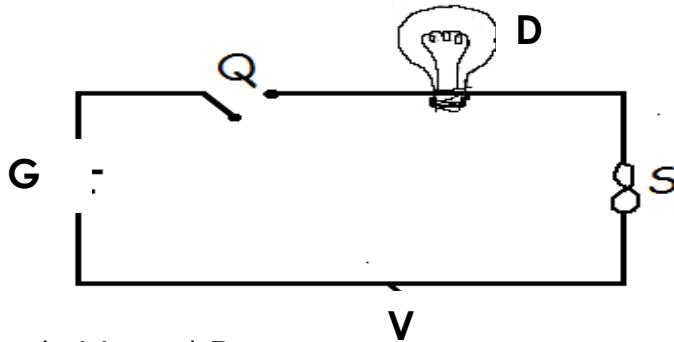
A

B

(b) State one structural difference between vessels **A** and **B**.
.....

(c) What is the importance of part Y in blood vessel A?
.....
.....

54. The diagram shows a simple electric circuit. Use it to answer the questions.



(a) Name parts V and R.
(i) V:
(ii) R:
(b) If Q is closed, give one reason why R would not light.
.....
.....

(c) How is part marked S useful in the above circuit?
.....
.....

55 (a) What is a skeleton?
.....
.....

(b) Name the longest bone in a human body.
.....
.....

(b) State two uses of a skeleton in a human body.
(i)
(ii)

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the body sense that helps to tell the taste of sugar in tea.

.....

2. Give one reason why farmers mulch their gardens.

.....

3. Why does a fish die when removed out of the water?

.....

4. How does refrigeration prevent milk from going bad?

.....

5. Use the diagram to answer the questions that follow.



Identify one bird with this type of foot.

.....

6. How useful is such type of feet to this group of birds?

.....

7. What is the role of sunlight during photosynthesis?

.....

8. How is the use of a vent pipe different from that of a screen?

.....

9. Where does the tsetse fly lay its eggs?

.....

10. Give the importance of the garden tool below to a crop farmer.



11. What physical process changes ice to gas?

.....

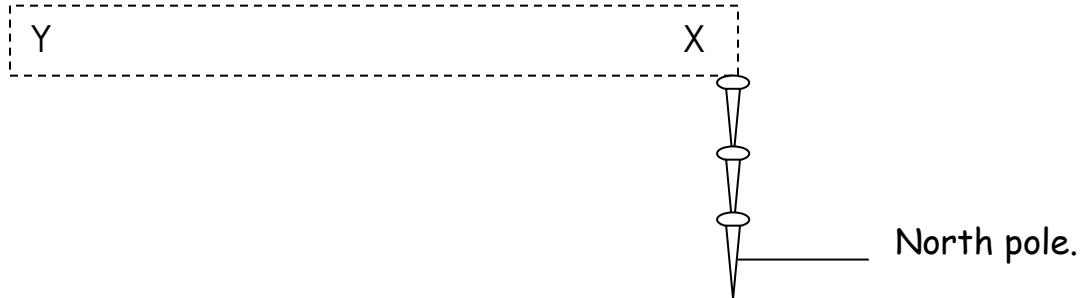
12. Give one disadvantage of friction in machines as a nuisance force.

.....

13. Give the use of a fuse in an electric circuit.

.....

14. Study the diagram and answer the questions that follow.



Name the pole of the magnet marked X.

.....

15. Identify the property of magnets shown above.

.....

16. Apart from bats, name one vertebrate that makes echoes in the environment.

.....

17. Identify any one sex offence common in schools today.

.....

18. Give one danger of sharing a room with potted plants at night.

.....

19. Why are electric wires fixed loosely on the poles during their connection?

.....

20. Name one insect pest that attacks root crops.

.....

21. Calculate the density of an object whose mass is 10gm and volume 40cc.

.....

22. Apart from wearing shoes, suggest one other way of preventing hookworm infection.

.....

23. How useful are tendons at a joint?

.....

24. Name one insect that protects itself by stinging apart from bees.

.....

25. What is the gestation period of a ewe?

.....

26. Give one health reason for ironing clothes.

.....

27. The diagram shows a part of a flowering plant.



Name the importance of part Y to a pumpkin.

.....

28. Name one human activity that results into air pollution.
-

29. Besides using a child health card, how can you identify a child who has been immunized against tuberculosis?
-

30. Write one natural method of controlling rats in a home.
-

31. How is a housefly useful in a home during the larvae stage?
-

32. Give one importance of PIASCY messages at school.
-

33. State one activity family members can do to promote personal hygiene.
-

34. How is lightning formed during a thunderstorm?
-

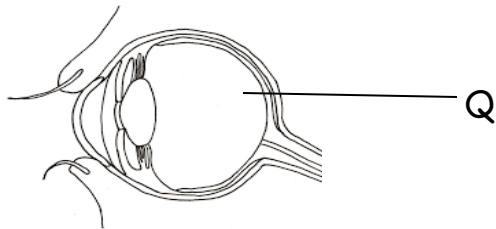
35. Why is an approaching plane seen before the sound is heard when it is overhead?
-

36. How can you separate a mixture of sugar and powder of steel wire?
-

37. Give the importance of a health survey to the government.
-

38. How important is a stretcher in carrying out first aid?
-

39. Give the role of the part marked Q to the eye of a dog.



40. Why should a baby who has swallowed jik when washing be made to vomit?

SECTION B

Questions 41 to 55 carry four marks each.

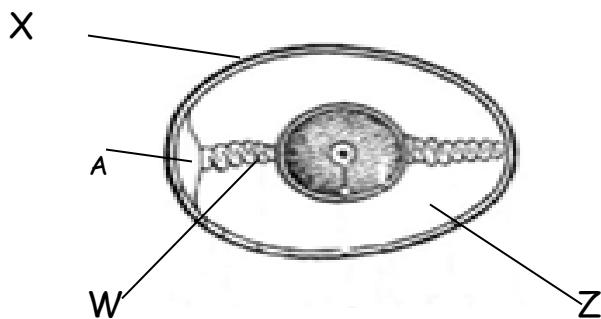
41 (a) What is germination?

(b) Identify the type of germination undergone by ground nuts.

(c) Besides water and oxygen, give one other condition necessary for seed germination.

(d) What type of leaf venation does a ground nut have?

42. The diagram shows the internal structure of a bird's egg.



(a) Name parts W and Z.

- (i) W
- (ii) Z
- (b) Besides protection, give one use of part X to an egg.

.....

- (c) Why may a fertilized egg fail to hatch?

.....

43. (a) Give any two problems an adolescent girl who gets pregnant may face besides dropping out of school.

(i)

(ii)

- (b) Identify any two groups of people who are vulnerable to AIDS.

(i)

(ii)

44. Match items in A with those in B.

A

- (i) Storage of semen
(ii) Welding metals
(iii) Making electric bulbs
(iv) Preservation of drinks

B

Carbon dioxide
rare gases
Oxygen
Carbon monoxide
Nitrogen

- (a) Storage of semen.....
(b) Welding metals,
(c) Making electric bulbs.....
(d) Preservation of drinks.....

45. (a) Identify any one common drug of dependence.

.....

(b) Give one reason why people commonly abuse drugs.

.....

(c) State any two dangers of drug abuse to:

(i) an individual

.....

(ii) a family

.....

46.(a) How is a strain different from a sprain?

.....

.....

(b) Write down any one disorder of the;

(i) Muscles

.....

(ii) Bones

.....

(c) Give one health habit that helps to keep the skeletal system in healthy working condition.

.....

47. The diagram shows a domestic appliance. Use it to answer questions that follow.



a) Name part C.

.....

(b) How does part B work?

.....

.....

(c) Name any one material used to make part A.

.....

(d) Give one use of the instrument above at home.

.....

48. (a) Name one natural component of soil.

.....

(b) A part from weathering, give one way how soil is formed.

.....

(c) What role do earthworms play in soil formation?

.....

(d) What is soil exhaustion?

.....

49. The diagram shows a natural process in our environment. Use it to answer questions that follow.

Grass

grasshopper

bird

snake

- (a) Use arrows to show the relationship between the organisms numbered from 1 to 4.
(b) What name is given to this kind of relationship?

.....

- (c) What is the scientific name given to organisms labeled 3?

.....

- (d) Give the role of part 4 in the environment.

.....

50. (a) What are inexhaustible resources?

.....
.....

- (b) Give two ways of conserving trees as a natural resource.

(i)

(ii)

- (c) How does a clay stove conserve heat?

.....

- 51a) To which group of vertebrates does a tadpole belong?

.....

- (b) Give one importance of tadpoles in our environment.

.....

- (c) How is breathing of a tadpole different from its adult?

.....

.....

- (e) Name one animal that belongs to the same family with tadpole.

.....

52. a) Apart from kidney, name one other excretory organ protected by the skeleton

.....

(b) Name the excretory product secreted by the kidneys.

.....

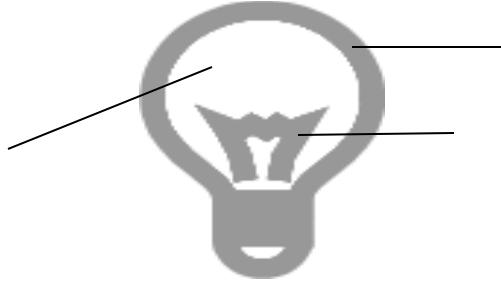
(c) Give one disease of the skin.

.....

(d) State one way of keeping the skin in a good working condition.

.....

53. The diagram below shows an electric lamp. Answer questions on it.



a) Name part R.

.....

(b) Why is oxygen gas not used in part S?

.....

(c) Give a reason why part T is usually coiled?

.....

(d) Identify any one gas found in part S.

.....

54a) Give the importance of pulley at school besides pulling up or down the school flag.

.....

(b) Calculate the effort needed to lift a load of 200N using a single movable pulley.
(2 marks)

(c) Give one factor that may reduce the efficiency of a pulley.

.....

55. a) What is food preservation?

.....

.....

(b) Name two modern methods of food preservation.

(i)

(ii)

(c) What is food insecurity in the conservation of food?

.....

-
1. Tasting / sense of taste.
 2. To conserve soil moisture/ soil fertility/control erosion/ weeds
 3. The gills dry out in the free dry air.
 4. Prevents the bacterial from multiplying / keeps bacteria dormant
 5. Parrots/ wood peckers
 6. For climbing trees
 7. Provides sunlight (heat) energy
 8. A vent pipe takes out bad smell / stale air from the pit while a screen helps to trap house flies.
 9. It hatches its eggs inside the abdomen and lays the larvae in the soil.
 10. To dig rocky soil / To harvest root crops / To narrow the garden
 11. Sublimation
 12. Slows the speed of machines / causes wear and tear / cause unnecessary heating in machines
 13. To protect electric appliances from damage in case of a surge / power outage.
 14. North pole
 15. A magnet is stronger at the poles.
 16. Whales / Dolphins
 17. Rape / Defilement/ Abortion/ Sodomy/ Lesbianism.
 18. Leads to competition for oxygen since plants also use it for respiration at night.
 19. To leave room for contraction on cold days/ To prevent breaking of wires due to contraction during very cold weather.
 20. Potato weevils.
 21. $D = \frac{M}{V} = \frac{10g}{40cc} = \frac{1}{4} = 0.25g/cc$
 22. Washing hands after using the latrine / toilet washing fruits and vegetables before eating.
 23. Tendons join muscles to bones.
 24. Wasps / soldier ants / blank ants
 25. 5 months / 150 days
 26. To kill parasites / germs / remove odour (bad smell)
 27. To produce / store pollen grains.
 28. Bush burning / poor waste disposal / release of industrial wastes / dumping of chemicals/exhaust fumes from driving vehicles.
 29. Checking the scar on the right upper arm
 30. Using cats to eat rats/ some communities hunt and eat them.

31. The maggots help to reduce the volume of faeces (break down faeces) in a pit latrine.
32. To prevent children from dropping out of school / prevent them from STDs/ prevent early marriages / early pregnancies.
33. Bathing/ washing clothes / brushing their teeth/ ironing clothes / grooming hair and nails
34. Friction between clouds / discharge of electrons from one charged cloud to another/ discharge of electrons from clouds to the earth or positively charged objects on earth
35. Light travels faster than sound./ speed of light is faster than speed of sound.
36. Using a magnet to attract the iron powder.
37. To help for social services
38. To transport (carry) casualties who can't walk
39. To form images
40. It may lead to damage of other body

SECTION B

41. -
 - a) Development of a seed into a seedling
 - b) Epigeal germination
 - c) Warmth / Optimum / right temperature
 - d) Reticulate / network venation
42. -
 - a) (i) chalaza / twisted albumen
(ii) Germinal disc/ embryo
 - b) To give shape / To allow gaseous exchange as it is porous.
 - c) If the air space is blocked / embryo dies / the embryo fails to get air and moisture/ when the egg is cracked.
43. -
 - a) Forced marriage / early marriage / may get STDs/ may suffer social stigma/ rejection by parents or boy friend / may risk abortion / die in course of delivery.
 - b) Distant truck drivers / business men/ traders/ street kids/ soldiers in front line areas / policemen on duty away from home / street sex workers/ prostitutes.
44. (a) - Storage of semen - Nitrogen
(b) Welding metals - Oxygen
(c) Making bulbs - Rare gases
(d) Preservation - Carbon dioxide
45. -(a) Alcohol / tobacco / Mirra / Marijuana/ Khat/ Opium/ Cocaine
(b) To feel happy / warm/ join peer groups / wrong adverts / feel mature.

- (c) (i) brain damage / personal neglect / loss of job
(ii) Loss of family income / spouse abuse / family neglect
46. - (a) Strain is a torn or overstretched tendon while sprain is a torn or over stretched ligament / strain affects muscles while a sprain affects joints.
(b) (i) cramp / spasm/ tear of muscles / cuts
(ii) crack / fracture
(c) Eating a balanced diet / physical exercises.
47. -
a) Vacuum seal
b) Prevents heat loss or gain by radiation
c) Wood / plastic / rubber
d) To keep hot things hot or cold ones cold.
48. (a) Bacteria / earth worms/ termites / living organisms
(b) Decomposition of organic matter
(c) They aerate the soil / their droppings make soil fertile
(d) Loss of soil fertility due to over use
49. -
(a) Grass - Grass hopper → Bird → snake
(b) Food chain
(c) Primary consumers
(d) They make food / purify air / give Oxygen
50. -
a) Resources that can not be used up
b) Afforestation / re-afforestation / agro-forestry
c) It retains heat and loses it slowly because it is an insulator of heat
51. -
a) Amphibians
b) They control malaria by eating the larvae
c) A tadpole uses gills while the adult uses lungs or moist skin.
d) Newts / Salamanders / blind worms/ cecilians
52. -
a) **Lungs**
b) Urine
c) Scabies/ Eczema / Ring worms / skin cancer
d) Eating a balanced diet / bathing regularly/ avoid bleaching / tattooing / piercing the skin.
53. (a) glass envelop / glass bulb / globe
- (b) Oxygen supports burning so it would burn off the filament
(c) To increase the surface area for healing / electrical resistance.
(d) Nitrogen / neon / argon / xenon / krypton
54. (a) Drawing curtains / taking up building materials
(b) $E = \frac{L}{MA} / E = \frac{200N}{2} / E = 100N$
55. (a) A way of keeping food free from germs or contamination.
(b) Refrigeration / deep frying / pasteurization/ canning / tinning / bottling.

SECTION A (40 Marks)

1. Name any **one** living component of the environment.

2. State the difference between melting and sublimation as used in heat energy.

3. Mention any **one** characteristic of arthropods.

4. Name any **one** deficiency disease which affects the musculo-skeletal system.

5. How is a blubber layer useful to a sea mammal?

6. Name the type of compound leaf illustrated below.



7. How does mulching keep moisture in the soil?

8. State any **one** effect of heat on matter.

9. Mention any **one** functional difference between veins and arteries.

10. State any **one** disorder of a digestive system.

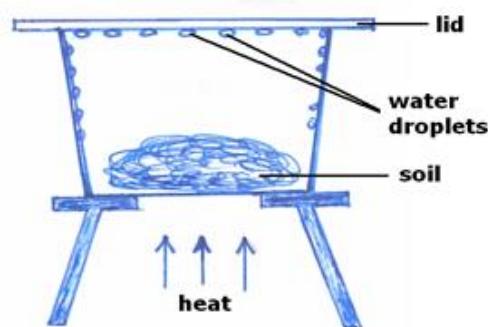
11. Why is **BCG** vaccine administered at birth?

12. How is rainbow formed?

13. Name any **one** source of food in the environment?

14. Mention any **one** factor which affects the speed of sound.

15. What does the experiment below show about soil?



16. Mention **any one** sign of a simple fracture.

-
17. Identify the process in plants which is similar to sweating in humans.
-
18. Cite any one antenatal care services you know.
-
19. How are the root nodules useful to the leguminous plants?
-
20. Which component of air is decreased in the atmosphere during the process of photosynthesis?
-

The diagram below is of a tooth. Use it to answer questions 21.

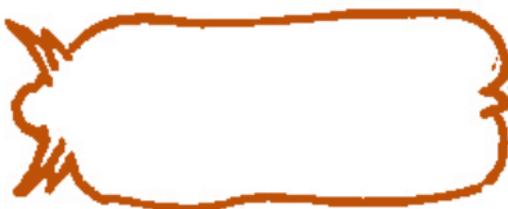


21. State the function of the above tooth.
-
22. Why is the dry season the best time for shearing of sheep?
-
23. Mention any one primary sex characteristic in both boys and girls adolescents.
-

24. Which form of energy is stored in a dry cell?

25. Mention any **one** cause of dehydration among infants.

26. Identify the type of cattle whose body conformation is drawn below.



27. State any **one** reason why farmers thin their crops.

28. Mention any **one** method of applying fertilizers in the garden.

29. Mention any **one** example of a harmful fungi in the environment.

30. State **any one** factor that may call for caesarian operation as a form of delivery in woman.

31. How is a micropyle useful to a germinating bean seed?

32. Mention any **one** example of a percussion musical instrument.

33. Mention any **one** example of stem tuber crop.

34. Write down **one** importance of reproduction to living things.

35. State any **one** characteristic of a physical change.

36. Which vector spreads relapsing fever to people?

37. Give any **one** example of an egg laying mammal.

38. How is a first aid box useful to a first aider?

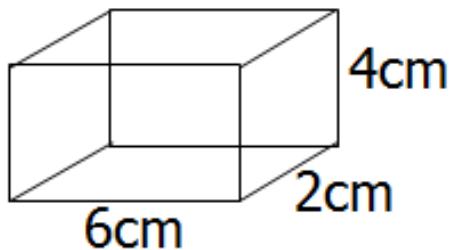
39. Mention any **one** cause of teenage pregnancy among girls.

40. Name the device used by the blind people to dodge obstacle on their way.

SECTION B (60 Marks)

41. If the mass of the cuboid below is **48g**. Find the density of the cuboid.

(4 marks)



42. a) In which **two** ways are plants used as energy resources?

(i) _____

(ii) _____

b) Suggest **two** methods of harvesting trees in Agroforestry.

(i) _____

(ii) _____

43. a) Name any **one** authorized place to get medical drugs in case you need them.

b) Geoffrey was suffering from malaria and the health worker gave him coatem prescribed (4×2). State any one factor the health worker based on to prescribe Coatem tablets to Geoffrey.

c) According to the above information, how often should Geoffrey take the medicine?

d) Why should drugs be kept out of reach of children?

44. A boy stood in front of a wall and clapped his hands. After **3** seconds, he heard the same sound from the wall.

a) What name is given to the sound heard after **3** seconds?

b) How was such a sound produced?

c) Mention **one** mammal that makes use of the above sound to move.

d) Name any **one** material that can be put in theatre halls to absorb the sound you have named in (a) above.

45. a) How do we call the finger -like structures found in the ileum?

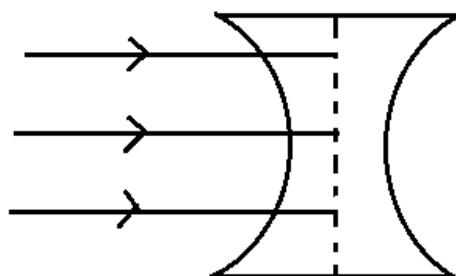
b) Name the digestive enzyme found in saliva.

c) Name **two** types of digestion.

(i) _____

(ii) _____

46. The diagram below shows **a lens**. Use it to answer the questions that follow.



a) Name the type of lens shown above.

b) **Complete the light rays through the lens above.**

c) Which eye defect is corrected by the above lens?

d) Besides the eye defect in (c) above, name any other defect.

47. a) Give any **two** examples of dairy breeds of goats.

(i) _____

(ii) _____

b) Identify **one** disadvantage of tethering method of rearing goats.

c) Which practice in goat keeping controls internal parasites?

48. a) Name the type of chicken reared for egg production.

b) State **any one** way of increasing egg production on our poultry farms

c) Write down **two** advantages of keeping farm records on a poultry farm.

(i) _____

(ii) _____

49. The table below shows immunization sites, diseases and vaccines administered. Study and complete it correctly.

Disease	Vaccine	Administration and site
_____	BCG vaccine	Injection on the right upper arm
Measles	Measles vaccine	_____
Diphtheria	_____	Injection on the left upper arm
Hepatitis B	_____	Injection on the left upper thigh

50. a) Why are biceps and triceps called antagonistic muscles?

b) What happens to each of the following muscles when the arm is straightened;

i) biceps? _____

ii) triceps? _____

c) Apart from feeding babies on food stuffs rich in **Vitamin D**, how else can rickets be prevented?

51. a) What is the difference between heat and temperature?

b) Mention any **two** importance of heat transfer by conduction in the environment.

(i) _____

(ii) _____

c) Why is the handle of a frying pan made either a wood or plastic?

52. **Match sensibly.**

List A

Vectors

House fly

Female anopheles mosquito

Tsetse fly

Culex mosquito

List B

Germs

Trypanosoma

Filaria

Plasmodia

Chlamydia

Correct order

Vector

Germs

- i) Housefly _____
- ii) Anopheles mosquito _____
- iii) Tsetse fly _____
- iv) Culex mosquito _____

53. a) Mention any **two** examples of wading birds.

(i) _____

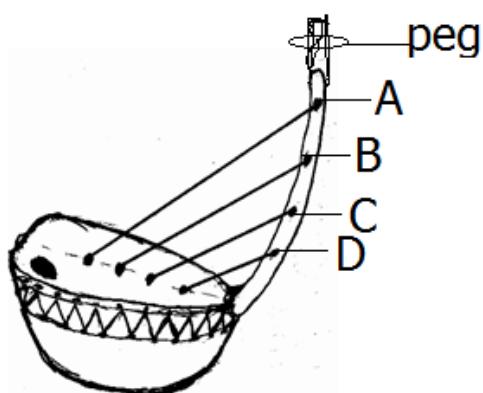
(ii) _____

b) State any **two** reasons why some birds are able to fly.

(i) _____

(ii) _____

54. The diagram below is of a **musical instrument**. Use it carefully and answer the questions that follow.



a) Name the group of musical instrument drawn above.

b) Which strings will produce;

- i) High pitch of sound _____
- ii) Low pitch of sound _____

c) How can the pitch of sound be produced by the musical instruments above be changed?

55. a) How is melanin found in the malpighian layer of the human skin important?

b) State any **one** way in which the human skin regulates the body temperature during;

(i) Cold days.

(ii) Hot days.

d) Give any **one** way of caring for the human skin.

SECTION A (40 MARKS)

1. Give one example of a legume.

2. What is the use of a trowel to a crop farmer?

3. Give one reason why a spider is not an insect.

4. How is a worker bee able to carry pollen on its body?

5. What does a mushroom use to reproduce?

6. What is the danger of not brushing your teeth regularly?

7. Why is copper called a good conductor?

8. How is chlorophyll important in the process of photosynthesis?

The diagram shows a food of a bird. Use it to answer questions 9 and 10.



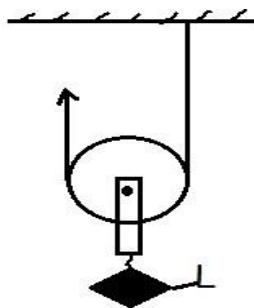
9. Name an example of a bird with this foot.

10. How useful is the structure of this foot to the bird?

11. How does a vacuum prevent heat loss in a flask?

12. What do we call a condition when a person cannot see objects that are far from him?

The diagram shows a type of a pulley system.



13. How does it help to make work easy?

14. Which substance in the ear prevents dust from entering the organ?

15. Apart from charcoal and timber, name one practice that is a danger to trees.

16. How does a poultry farmer stop cannibalism among his birds?

17. Give an example of a stem tuber.

18. How is the reproduction of a housefly different from that of a grasshopper?

19. Which type of plants have a parallel leaf venation?

20. What is the use of synovial fluid in a joint?

21. Which organ in the body allows exchange of gases in blood?

22. What is the use of a urinary bladder?

23. What is the use of ORS to a sick child?

24. Why does a piece of stone sink in water?

25. Which immunisable disease paralyses limbs of human beings?

26. What causes evaporation in a water cycle?

27. Which activity of sanitation will reduce the spread of malaria in a community?

28. What is the danger of water snails to human beings?

29. What is the use of prop roots on a maize plant?

30. What type of change needs heat to take place?

31. Give one reason why a mother must breastfeed her baby?

32. How is a bat able to avoid hitting a rock at night?

33. Which practice of cultivation reduces soil erosion in hilly areas?

34. What is passive smoking? _____

35. Why should garden tools be kept in a dry place?

36. Why is human skin called an excretory organ?

37. Which part of a living house allows carbon dioxide out?

38. What is the use of a nostril to a fish?

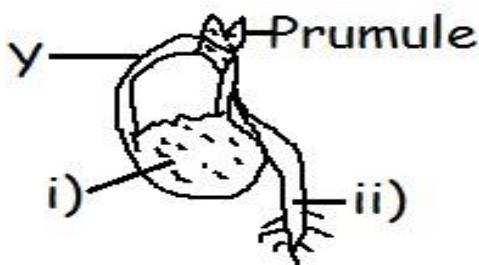
39. Which blood vessels have valves?

40. How would the seed below be dispersed?



SECTION B (60 MARKS)

41. The diagram shows part of a germinating seed. Use it to answer the questions that follow.



(a) Name the parts:

i) _____

ii) _____

(b) What is the function of part Y?

(c) Name one condition that would make a seed fail to germinate.

42. Name the weather instrument in A with what they do in B.

(A) Instrument

Windsock

Rain gauge

Sixth's thermometer

(B) Function

atmospheric pressure

strength of wind

temperature

Barometer

how much it has rained

- i) Windsock: _____
- ii) Rain gauge: _____
- iii) Sixth's thermometer: _____
- iv) Barometer: _____

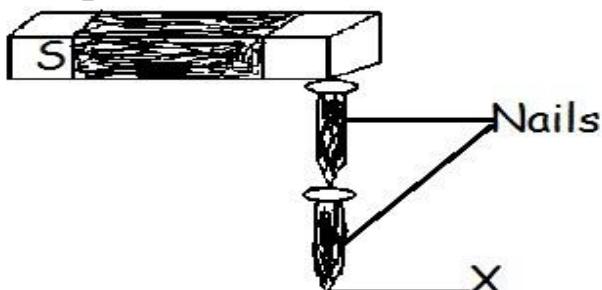
43. (a) Give the causes of these conditions in human body.

- i) Kwashiorkor: _____
- ii) anaemia: _____

(b) Apart from refrigeration, give two other ways of conserving fish.

- i) _____
- ii) _____

44. **The diagram shows a method of magnetization. Study it and answer the questions.**



(a) What is the method called?

(b) What would happen if point X of the nail is put at pole S?

(c) Name one activity that would make a magnet lose its magnetism.

(d) Which part of a radio uses a permanent magnet?

45. (a) What are energy resources?

(b) What is the major source of energy on earth?

(c) Give two ways by which water can act as a resource.

i) _____

ii) _____

46. (a) Name the two types of pollination in flowering plants.

i) _____

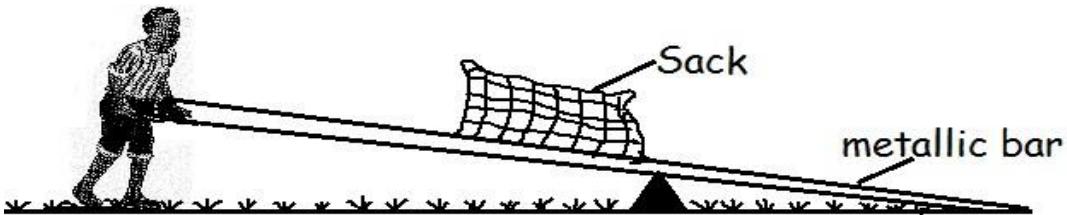
ii) _____

(b) What is the use of each of the following during pollination?

(i) anthers: _____

(ii) stigma: _____

47. The diagram shows a boy using a metallic bar to raise a bag of coffee. Use it to answer the questions.



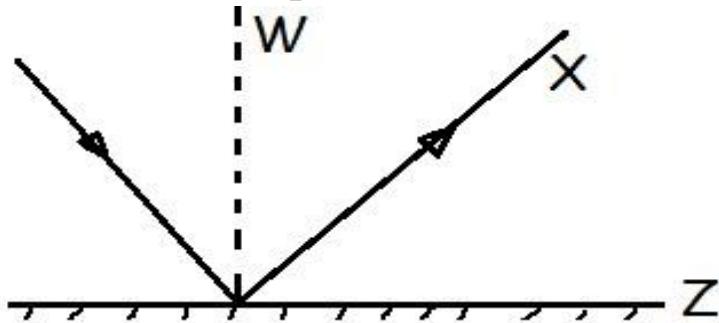
(a) Which type of machine is he using?

(b) What can he do to lift the sack more easily?

(c) Name the force that slows movement in moving parts of a machine.

(d) How is the force in (c) useful in our daily life?

48. The diagram shows a ray of light on a smooth shiny surface Z. Use it to answer the questions that follow.



(a) Name part X and W.

- i) X: _____
- ii) W: _____

(b) Name an instrument where the above principle is used.

(c) Use letter "T" to show the angle of reflection.

49. (a) What is First Aid? _____

(b) Give two reasons why an injured person may need first aid.

i) _____

ii) _____

(c) How is a splint useful to a person with fractured lower leg?

50. (a) What is teenage pregnancy? _____

(b) Apart from failure to have safe delivery, give two other dangers of teenage pregnancy.

i) _____

ii) _____

(c) How can a school prevent teenage pregnancies?

51. (a) How are the following important to a cattle farmer?

i) Castration: _____

ii) Deworming: _____

(b) Give two systems used in grazing cattle.

i) _____

ii) _____

52. (a) Give two ways of making water safe for drinking.

i) _____

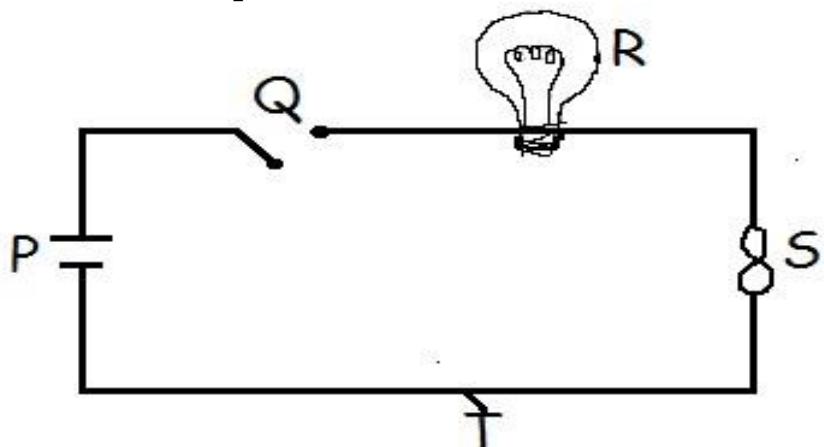
ii) _____

(b) Write any two ways by which water can become impure.

i) _____

ii) _____

53. The diagram shows a simple electric circuit. use it to answer the questions.



(a) Name the part T and R.

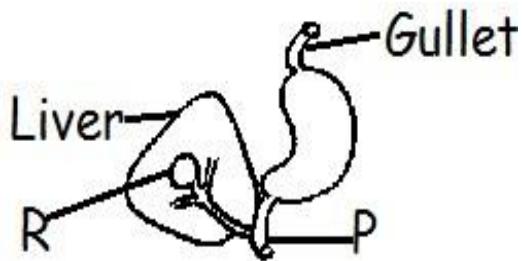
i) T: _____

ii) R: _____

(b) If Q is closed, give one reason why R would not light.

(c) How is S useful in the above circuit?

54. Below is part of the human alimentary canal. Study it to answer the questions.



(a) Give the name and function of part R.

i) Name: _____

ii) Function: _____

(b) Where does food go after P?

(c) Give one way of preventing constipation.

55. The government of Uganda has stopped the use and manufacture of polythene bag.

(a) Give two reasons why this was done.

i) _____

ii) _____

(b) Apart from controlling the spread of crop pests, give two other uses of mulching a garden.

i) _____

ii) _____

SECTION A: 40 MARKS

1. Mention any one component of soil.

2. Mention any one function of the human skin

3. Name one epidemic disease that can breakout in your community with poor sanitation

4. Name the group of tuber crops to which a coco yam belongs

5. State any one use of snakes to man

6. Identify any one part to look at when cleaning your teeth

7. Name one type of mechanical energy

8. State the reason why the rate of soil erosion is higher in mountainous areas

9. State one reason why it is advisable that children participate in keeping their environment clean

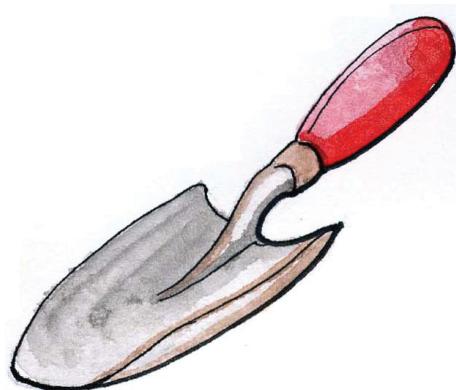
10. Identify the mineral missing in the diet of a child suffering from goitre

11. Name the state of matter in which a material with a definite volume but no fixed shape belongs

12. State the function of the septum in the human heart

13. Define an epidemic

Below is a drawing of a garden tool. Use it to answer question 14 and 15



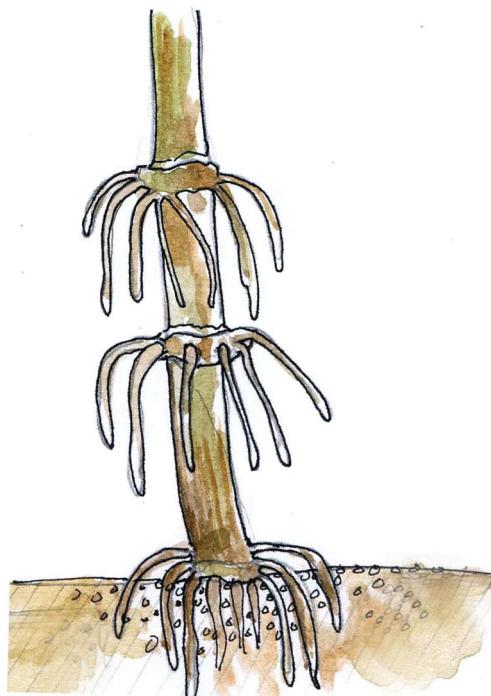
14. Name the garden tool

15. State the function of the garden tool

16. Mention any one condition under which a mother may be stopped from breastfeeding the baby

17. An alcoholic drink is labelled 40%. State what that means

Below is the structure of the root system in a plant. Use it to answer questions 18 and 19



18. Name the type of roots in the plant above

19. Identify the type of root system in the plant above

20. State any one reason why immunization is considered as a Primary Health Care practice

21. State one reason why physical methods of pest control are preferred to chemical methods

22. State any one reason why it is advisable for men to be circumcised

23. Mention any one way in which a health club in schools can reduce the outbreak of diseases in the school

24. Name the type of change that takes place when fruits ripen

25. State any one importance of bacteria to man

26. State how the hairy body of the housefly is important in spreading diseases

27. State why in resting an arm using an arm sling, the forearm and upper arm should be rested at 90°

Below is an instrument used to measure the temperature of a person.



28. Record the temperature of the person

29. State why the doctor said the person was not normal

30. State why it is important to sprinkle water on plant materials when making compost manure

31. State the role of plants in a food chain

32. Name the muscular organ that separates the chest cavity from the abdomen in humans

33. Mention any one importance of information gathered through a health survey in a community

34. Identify any one human activity that results into flooding of water bodies

35. Name the group of arthropods to which ticks belong

36. An organism has the following characteristics; cannot make its own food, reproduces by the use of spores, is made up of many cells. Name the group of living things to which it belongs

37. Apart from the magnetic method, mention any one method of storage and reproduction of sound

38. Name the type of immunity that a baby gets after being immunized

39. Name any one vaccine against COVID-19

40. State what you understand by the efficiency of a simple machine

SECTION B (60 Marks)

41. a) Define personal hygiene?

- b) State the importance of the following processes while cleaning clothes

i. Ironing _____

ii. Soaking _____

- c) Identify any one disease that can be spread in a school due to poor cleanliness of beddings

- 42 a) Mention any two functions of muscles

(i) _____

(ii) _____

- b) State what happens to the following muscles when the fore arm is folded

triceps _____

biceps _____

43. Match the list of internal organs in humans in A to their functions in list B.

A

Kidney

Brain

liver

lungs

B

exchange of gases

produces bile

produces urine

stores information

44. The following are processes that lead to hearing in humans. Arrange them in their correct order

- The cochlea changes the vibrations into nervous impulses
 - The pinna receives sound vibrations and directs them to the eardrum
 - Vibrations are transmitted through the ear ossicles to the inner ear
 - Message are sent through the auditory nerve to the brain for interpretation
-
-
-
-
-

45. In a slum in Mukono, there are many people living in a small area. There are no proper pit latrines and toilets. The place is littered with many used polyethene bags

- a) Identify any two environmental problems that can result from this situation

(i) _____

(ii) _____

- b) Identify any two ways in which the people in the area above can control these environmental problems

(i) _____

(ii) _____

46. a) Name the germ that causes COVID 19

b) Identify any one sign and symptom of COVID 19

c) Mention any two ways of controlling the spread of COVID 19 in a school

(i) _____

(ii) _____

47. a) Name the group of worms to which the following intestinal worms belong

i. Hookworm _____

ii. Tapeworm _____

b) Identify any two ways of controlling the spread of Bilharzia in a community

(i) _____

(ii) _____

48. a) Mention any two practices that can prevent contamination of food in a school

(i) _____

(ii) _____

b) Name any two diseases that can be transmitted through contaminated food

(i) _____

(ii) _____

49. a) Mention any two benefits of keeping pigs

(i) _____

(ii) _____

b) Identify any two advantages of keeping pigs over keeping cattle

(i) _____

(ii) _____

50. a) Apart from the free-range system, name two other methods of keeping poultry

(i) _____

(ii) _____

b) Explain why poultry easily get infected in the free-range system
(2 marks)

(i) _____

(ii) _____

51. a) Mention any two methods of extracting honey

(i) _____

(ii) _____

b) State the importance of the following in a Kenyan Top bar hive

Queen excluder _____

Top bar _____

52. a) Name any two materials that can be used to make compost manure in your community

(i) _____

(ii) _____

b) Identify any two advantages of organic manure over inorganic fertilizers

(i) _____

(ii) _____

53. a) Name the state of matter in which heat travels fastest by;

Conduction _____

Convection _____

b) Explain the reason why the inner walls of the glass in a vacuum flask are painted silver (2 marks)

54. A machine lifts a load of 3000N through a distance of 0.5m when an effort of 1000N is applied through a distance of 2m. calculate;

a) The Mechanical advantage of the machine (2marks)

b) The velocity ratio of the machine (2marks)

55. Match the plants in A with how they reproduce in B

A

B

Mango reproduces by fragmentation

Fern produces seeds but without flowers

Christmas tree produces seeds and have flowers

Algae reproduces by the use of spores

SECTION A:

1. Name the body organ commonly affected by scalds.

2. Which component of the environment enables man to produce hydro electricity?

3. Give any **one** example of a fossil fuel.

4. Write any **one** way a family can care for its member who is **HIV** positive.

5. Give one way of preventing COVID-19 infections.

6. Calculate the voltage of a torch that uses three dry cells.
7. Write down any **one** way farmers can prevent and control rats from destroying their crops in the garden.

8. State the first aid for a snake bite.

9. Identify the disease vector that spreads nagana to cattle.

The diagram below shows a second class lever machine.

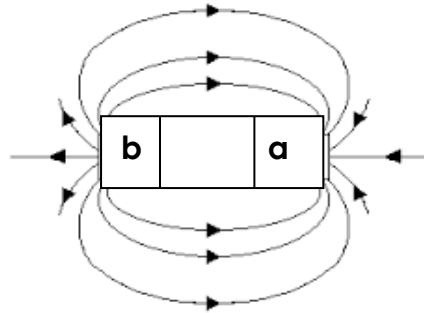


10. Name the part labeled **L**.

11. State any **one** natural method of family planning.
-

12. Give any **one** advantage of modern bee hives over the traditional one.
-
-

The diagram below shows a magnetic field.

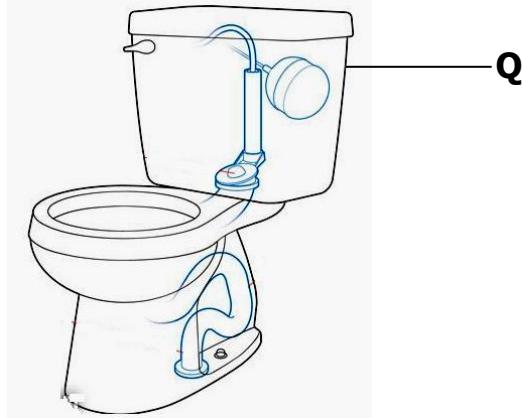


13. Name pole **a**.
-

14. Vulnerable groups of people are those that can easily be harmed. Give **one** example of such a group of people.
-

15. Write down **one** use of yeast to people.
-

The diagram below shows a common latrine in urban schools.



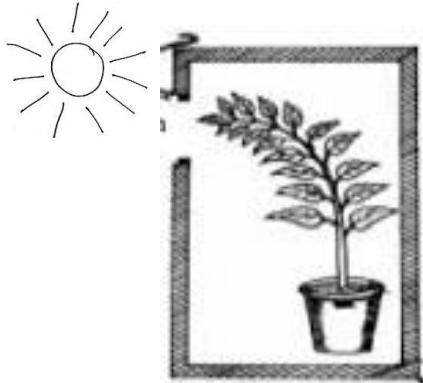
16. Give the use of part **Q**.
-

17. How are animals used as energy resources in our environment?
-

18. Apart from chicken, mention any one other domestic bird.
-

19. Give one example of a long bone in the body.
-

20. Identify the plant shoot response shown in the diagram below.



21. Oral health is the state of being free from any mouth and teeth infection or disorders. Name any one oral disease / infection.
-

22. Mention any one material that can be attracted by a magnet.
-

23. State any one way food gets contaminated at home.
-

24. Write down any one common sign of pest and disease damage in crops.
-

25. A towel is one of the materials used in promoting personal hygiene. How is it important?
-

26. Change 32°F into $^{\circ}\text{C}$.

27. State any one factor that can increase transpiration in plants.
-

28. What is leaching?

29. Give one use of rocks in our environment.

30. Which part of a seed produces the stem of a plant?

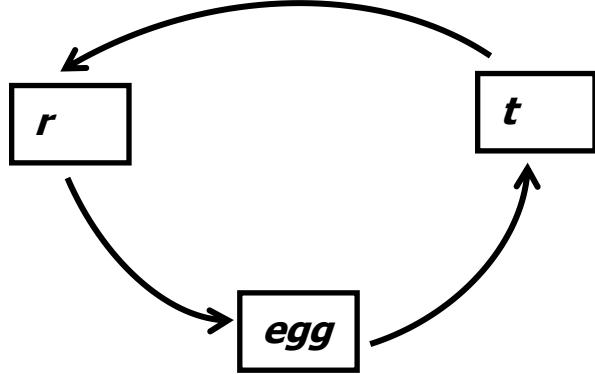
31. Identify the exotic breed of goats well known for producing large amounts of milk.

32. Write down any one effect of poor feeding to people.

33. State any one importance of air to plants.

34. Write down any one way you can care for the hair found on the head.

Study the lifecycle of insects below to answer questions 34.



35. Mention any one insect that undergoes the above life cycle.

36. Give any one precaution one should consider before taking any drug.

37. Write down any one type of soil erosion.

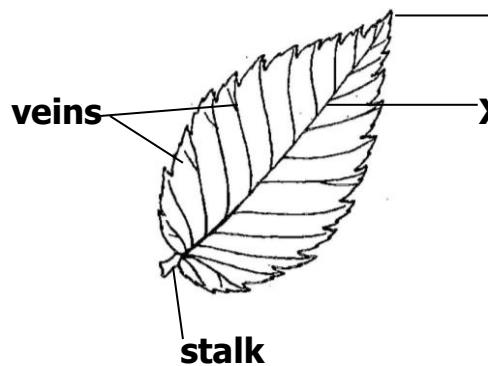
38. What is the use of the human eyes when eating food?

39. Write down any **one** place where immunization of children can take place.

40. State any **one** difference between mass and weight.

SECTION B

The diagram below shows part of a plant. Use it to answer question 41.



41. (a) Name the parts marked **X** and **Y**

X _____

Y _____

(b) Give the use of the following parts to the leaf.

(i) stalk _____

(ii) veins _____

42. (a) Besides plasma, name **one** other component of blood.

(b) Write any **two** material carried by plasma.

(i) _____

(ii) _____

(c) How are malaria parasites dangerous to the circulatory system?

43. (a) Apart from wringing, give any **two** activities involved in cleaning clothes locally.

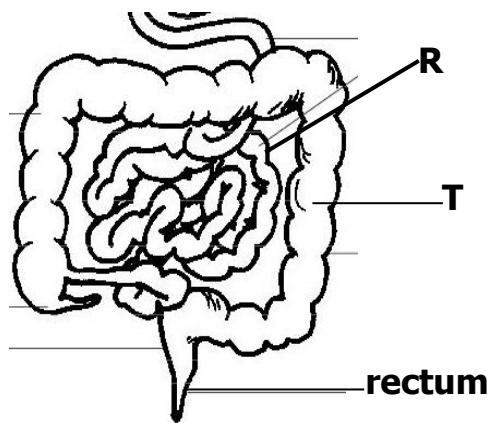
(i) _____

(ii) _____

- (b) Why is it important to wring clothes before spreading them under the sun?

- (c) Write the use of soap when washing clothes.

The diagram below is part of the human alimentary canal. Use it to answer the following questions.



44. (a) Name the part marked with letter **T**.

- (b) How is the part marked with letter **R** adapted to its function of food absorption?

- (c) Write down **one** disorder and disease of the above system.

(i) Disorder: _____

(ii) Disease: _____

45. (a) Identify any **two** materials used for harvesting water at home.

(i) _____

(ii) _____

- (b) Why do people harvest water?

- (c) Name the natural cycle that helps in the production of harvested water.

46. (a) In **one** sentence, show the meaning of “seed dispersal”.

(b) Give any **one** advantage of seed dispersal.

(c) Mention any **two** seeds dispersed by animals.

(i)

(ii)

47. (a) Why is there no problem playing with a child who is infected with **HIV/AIDS** in your community?

(b) How is the engagement and participation in sports activities important in the fight against **HIV/AIDS** among school children?

(c) Name any **one** harmful traditional practice that may be done to school children in Uganda today.

(d) Identify any **one** life skill that may help school children in the fight against **HIV/AIDS**.

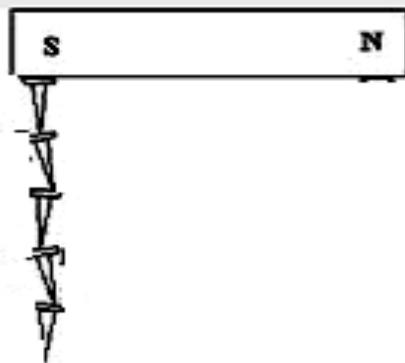
48. (a) Explain in **one** sentence how the following can happen;

(i) how electricity can be used to make magnets.

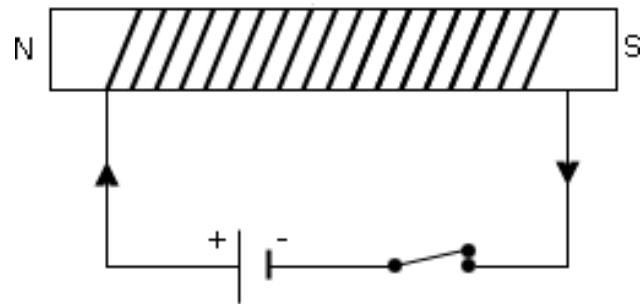
(ii) how magnets can be used to produce electricity.

(b) The diagrams below show ways of making temporary magnets.

(i)



(ii)



Name them

(i) _____

(ii) _____

49. Pollination is the transfer of pollen grains from the antherhead to the stigma. Apart from bees , mention any **two** other insects that help in transferring pollen grains.

(i) _____

(ii) _____

- (b) What structures on the bee's body enables it to carry pollen grains?

- (c) Mention the product from pollen made by bees.

50. (a) Mention any **one** method of preserving skins and hides.

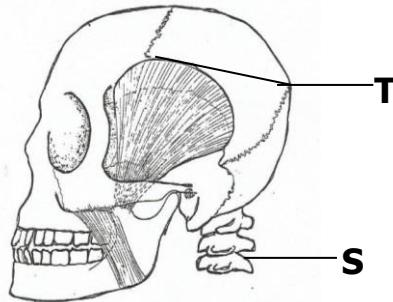
- (b) Write down any **two** items got from processed skins and hides.

(i) _____

(ii) _____

- (c) Give any **one** cattle parasite that may affect the quality of skins and hides.

51. Study the diagram of the human skull below to answer the following questions.



(a) Name the immovable joint at **T**.

(b) List down any **two** organs protected by the above part of the skeleton.

(i) _____

(ii) _____

(c) How is the joint marked by letter **T** different from the joint at **S**?

52. Match A with B.

A

(i) rushing to hospital

B

causes accidents

(ii) fire

management of accidents.

(iii) making an alarm

giving first aid.

(iv) applying cold pad

calling for help from others.

(i) Rushing to hospital _____

(ii) Fire _____

(iii) Making an alarm _____

(iv) Applying cold pad _____

53. (a) Name any **two** natural changes that can displace people in an area.

(i) _____

(ii) _____

(b) State any **two** effects of the natural changes named in (a) above.

(i) _____

(ii) _____

54. Study the diagrams of houses below to answer the questions that follow.



- (a) Name the type of house shown in diagram **M**.

- (b) Mention any **two** materials used to construct house **N**.

(i) _____

(ii) _____

- (c) Give any **one** advantage of house **M** over house **N**.

55. (a) Name any **one** exotic breed of rabbits kept in Uganda.

- (b) Write down any **one** habit of rabbits you know.

- (c) Give any **one** rabbit disease that can attack poultry.

- (d) State any **one** way in which rabbit farmers can keep their livestock healthy.

SECTION A:

1. Why do we wash our hands after garden work?

2. In the space below, draw the internal structure of a bean seed and name the cotyledon.
3. Identify one cause of dehydration in human beings.

4. Give one similarity between the function of spiracles of an insect and gills of a fish.

-
5. How is malaria commonly spread among people?
-
6. Why does clay soil retain (hold) water for a longer time than sand soil?
-
7. What happens to iron when it is exposed to water and oxygen?
-
8. Name the type of joint found in the neck region.
-
9. Why do some plants shed of their leaves during dry season?
-
10. Which structure makes a stem be used for propagation?
-
11. Identify the gland that helps in the production of saliva.

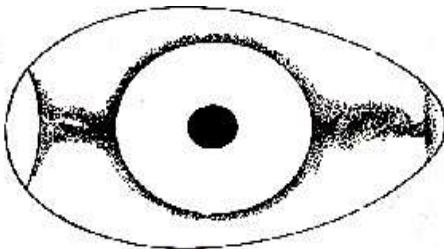
-
12. What benefit do crops get from animals in mixed farming?
-
13. Which stage of development in human beings is characterized by aggression and disobedience?
-
14. Why is it important to regularly weed crops?
-
15. Which pigment in the skin determines the skin colour?
-
16. Identify one way in which the electricity produced from Jinja is used by its consumers?
-
17. State the danger of improper use of the toilet/latrine.
-

18. Complete the diagram below by drawing its shadow.

19. In which way is paddock grazing system an advantage?

20. Why is a clinical thermometer an important tool in a health centre?

21. The diagram below is of an egg. State the function of R besides protecting the internal parts.



22. Why do objects fall downwards once thrown upwards?

23. Mention one secondary sex characteristic in female adolescents.
-

24. Of what importance is the sugar in the oral rehydration solution?
-

25. By what process does food move through the alimentary canal?
-

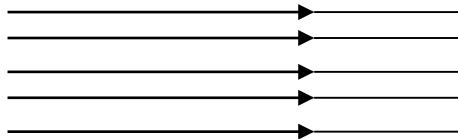
26. How are frogs different from birds in terms of reproduction?
-

27. What property of air is demonstrated by the diagram below?

28. How best can water be made safe for drinking?

29. Why do car tyres rotate more than the distance they cover on a muddy ground?

30. Name the beam of light shown below.



31. Give one way in which children in P.2 can use the air to play.

32. How lizards living in a residential house important?

33. Why do most babies who have been suffering from malaria become anaemic?
-

34. Mention one method of planting crops.
-

35. How are the feelers of an insect important in its survival?
-

36. What role can a local counsellor play in promoting immunisation against killer diseases among infants in a community?
-

37. Which disease is common in rabbits and poultry?
-

38. Describe the first Aid that can be administered to a casualty with a fractured arm.
-

39. Write SARS in full.

40. What is a simple machine?

Section B

41(a) In which two ways is soil considered a resource?

(i) _____

(ii) _____

(b) What effect does running water have on the soil?

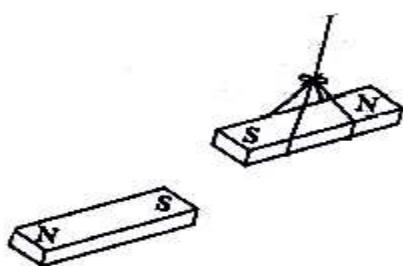
(c) Why isn't it necessary to mulch a sweet potato garden?

42(a) Complete the table below correctly.

DISEASE	VACCINE
i. Polio	
ii. _____	BGC Vaccine
iii Measles	

(b) Describe the effect of immunisation in ones body.

43. Study the diagram below carefully and use it to answer the questions that follow.



(a) What will happen when the magnets are brought close together in the given arrangement?

-
- (b) Which property of magnet is shown by the above diagram?

- (c) Give one method of making a magnet.

- (d) Mention one way an induced magnet can be produced.

44(a) Name any two components of the environment.

(i) _____

(ii) _____

- (b) How is the use of petroleum a danger to the environment?

- (c) In which way is the over exploitation of non-renewable resources a danger?

45(a) Name the three states of matter.

(i) _____

(ii) _____

(iii) _____

- (b) Which metal is a liquid at room temperature?
-

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



- (a) Name the blood vessels shown in the diagram.
-

- (b) State one importance the blood vessels in the human body.
-

- (c) Give one structural difference between veins and arteries.
-

- (d) Which blood cell is affected by sickle cells?

47(a) Bwaise is a slum with ever dirty water flowing in its channels.

Mention two diseases people in Bwaise are likely to suffer from if they use or come in contact with that water.

(i) _____

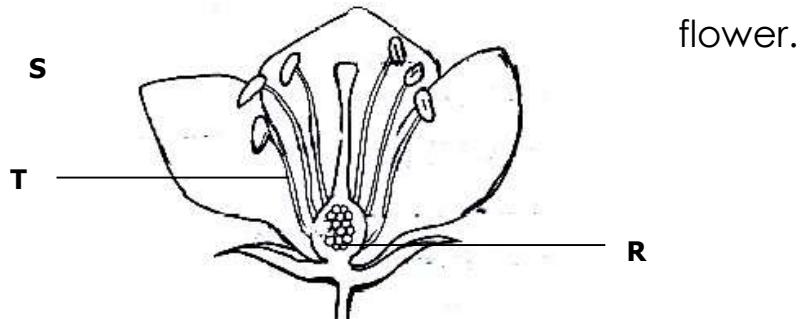
(ii) _____

(b). Give two ways the diseases in (a) above can be controlled.

(i) _____

(ii) _____

48. The diagram below shows a female reproductive part of a



(a). Name parts:

(i) R _____

(ii) T _____

(iii) S _____

(b) Which part in animals is similar to S?

49(a) Give the two processes involved in alcohol production by distillation.

(i) _____

(ii) _____

(b) Where in the body is alcohol absorbed into the blood stream?

(c) State one danger of alcohol to one's health.

50 Match members in A with those in B.

A

B

- | | | | |
|-------|---------------|---|--------------|
| (i) | Gizard | - | Bananas |
| (ii) | Bees | - | Grit |
| (iii) | Pseudostem | - | Stem cutting |
| (iv) | Sweetpotatoes | - | Pollen |

- (i). Gizzard _____
- (ii) Bees _____
- (iii) Pseudo stem _____
- (iv) Sweet potatoes _____

51(a) Name any two types of chicken reared in Uganda.

- (i) _____
- (ii) _____

(b) Which feed is given to the type of chicken named in (a) above?

- (i) _____
- (ii) _____

52(a) State one product got from cattle keeping.

(b) Why are the following practices carried out during the milking process?

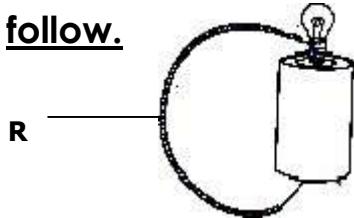
- (i) washing the udder with warm water?
-

- (ii) Filtering milk with a strip cup

- (iii) Oiling the teats:
-

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

follow.



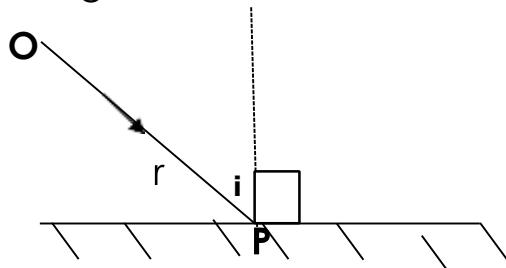
- (a) With a help of an arrow, show the direction of current flow.

- (b) Name any one material used to make R.
-

- (c) How many cells are used in the circuit?
-

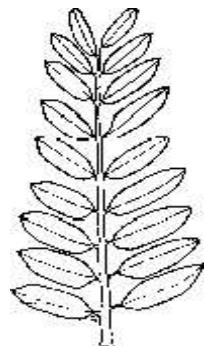
- (d) What form of energy is stored in the cell?

-
- 54 Use the diagram below to answer the following questions.



- (a) Name ray OP.
-
- (b) Complete the diagram correctly.
- (c) If i is 30° , give the value of r .
- (d) Give a reason for your answer in (c) above.
-

55. The diagram below is a plant leaf.



(a) What type of leaf is shown?

(b) Give a reason for your answer in (a).

(c) What type of leaf is shown above?

(d) How are leaves important to animals?
