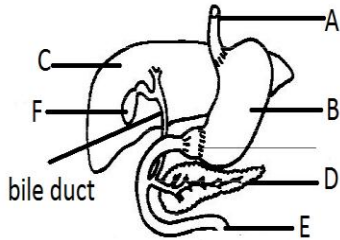


A NEW COURSE
REVISION WORKBOOK
INTERGRATED SCIENCE
AND HEALTH EDUCATION
FOR UPPER PRIMARY
(P6 AND P7)
FIRST EDITION- 2019
COMPILED BY:
KALIBO DAN

PAPER ONE

INTEGRATED SCIENCE DIAGRAM TEST

1. a) Define the term digestion



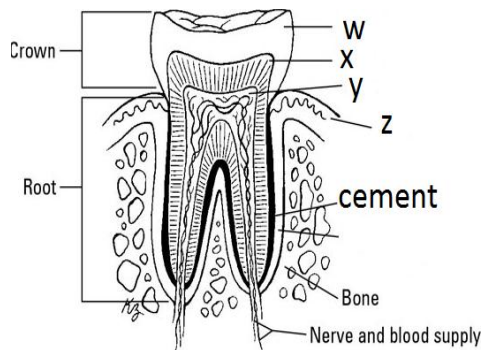
b) Name parts marked with letters

i) C _____

ii) E _____

c) What class of food is digested in part marked B?

2. Below is a diagram of a tooth use it to answer questions that follow



a) Name parts marked

i) X _____

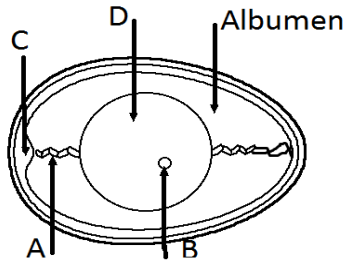
ii) Y _____

b) State the importance of parts marked

i) W _____

ii) Z _____

3. Use the diagram below of an egg and answer the questions that follow



a) Name parts marked

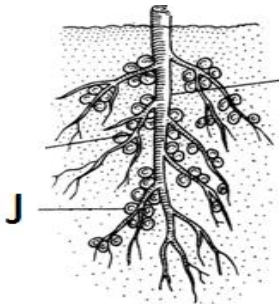
i) A _____

ii) B _____

b) Why is an egg shell porous?

c) Which part of an egg acts as a source of proteins for the embryo?

4. Below is a diagram of a root



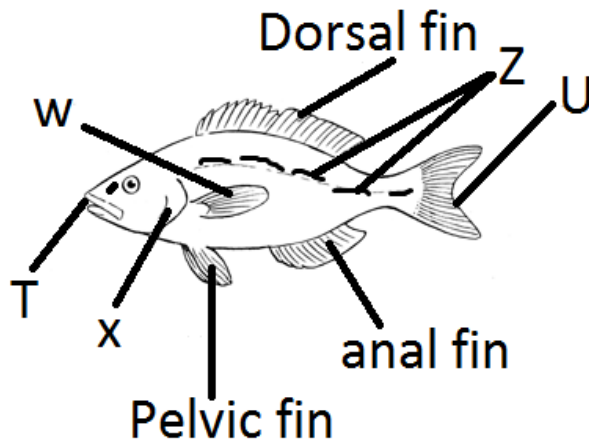
a) Name the above root system

b) Name part marked J

c) State the importance of part marked with letter J

d) Name the part of a root that protect it when growing

5. Use the diagram below of a fish to answer questions that follow



a) Name parts marked

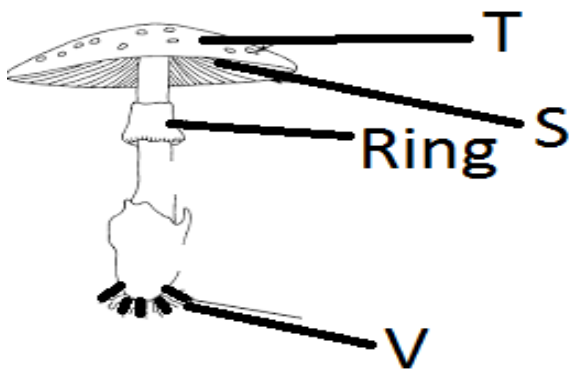
i) W _____

ii) X _____

b) State the function of part marked Z

c) State the importance of scales on a fish

6. The diagram below shows a mushroom, use it to answer questions that follow



a) Name parts marked with letters

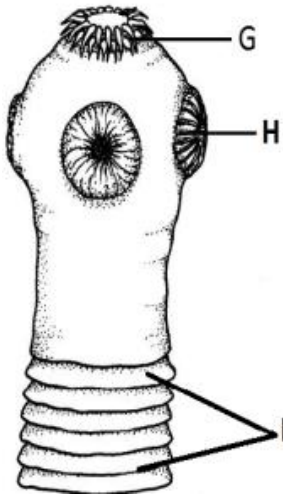
i) S _____

ii) V _____

b) State the function of parts marked T

c) Under what group of organisms does a mushroom belong?

7. The diagram below shows a worm, use it to answer questions that follow



a) Name parts marked G and I

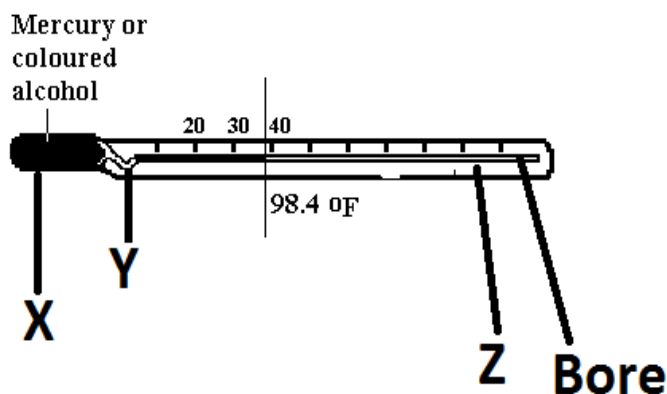
i) G _____

ii) I _____

b) State the function of part marked H

c) Name the worm drawn above

8. Below is a diagram of a thermometer, use it to answer questions that follow.



a) Name parts marked X and Z

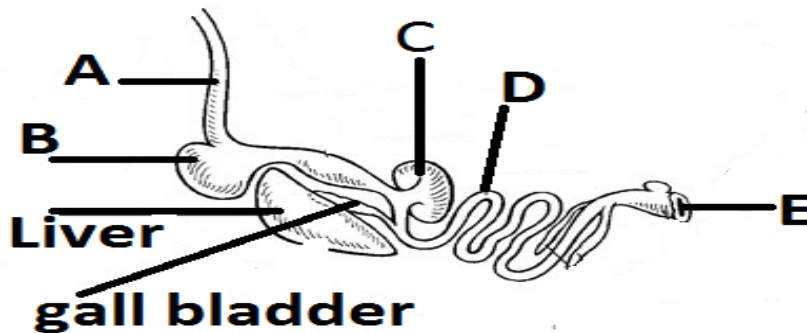
i) X _____

ii) Z _____

b) State the function of part marked Y

c) Why does a health worker shake a clinical thermometer before using it?

9. Below is the alimentary canal of a bird, use it to answer questions that follow



a) Name parts marked B and C

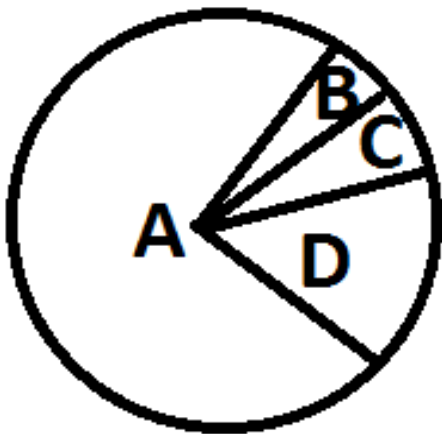
i) B _____ ii) C _____

b) State the importance of parts marked B and D

i) B _____

ii) D _____

10. The diagram below shows the percentage of air in the atmosphere



a) What is air?

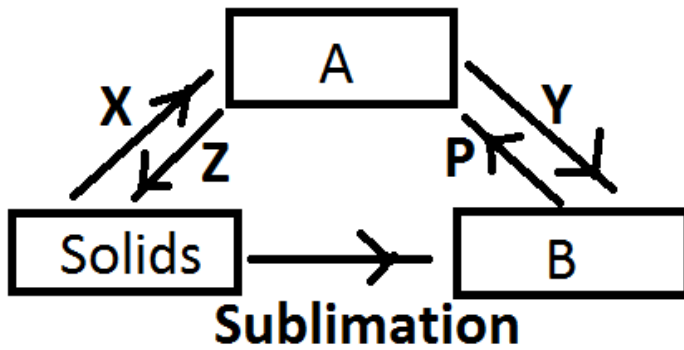
b) Name the components of air marked with letters A and C

i) A _____

ii) C _____

c) Name any one process that uses gas marked by letter D

11. The diagram below shows the changes of states of matter, use it to answer the questions that follow.



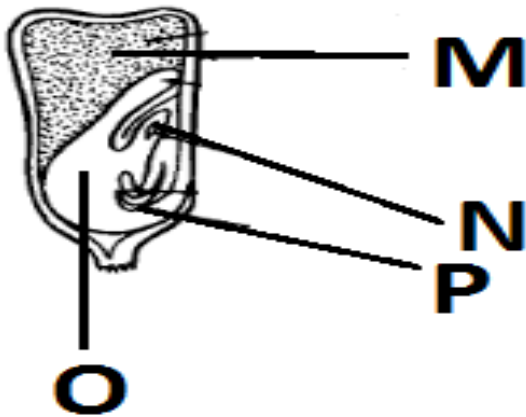
a) Name the state of matter marked with letter A

b) Name the processes marked with letters X and Y

i) X _____ ii) Y _____

c) State any one importance of process marked Z

12. Below is a diagram of a maize grain, use it to answer the questions that follow



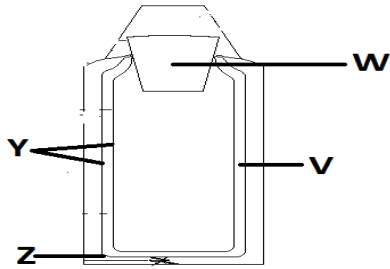
a) Why is a maize grain called a fruit?

b) Name parts marked with letters L and O

i) L _____ ii) O _____

c) State the importance of part marked with letter M

13. The diagram below shows a vacuum flask, use it to answer the questions that follow.



a) Name part marked X

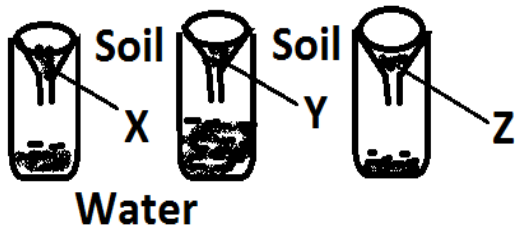
b) How do the parts below prevent heat loss in a vacuum flask

i) W

ii) Y _____

c) State the function of part marked Z.

14. Below is an experiment about soil.



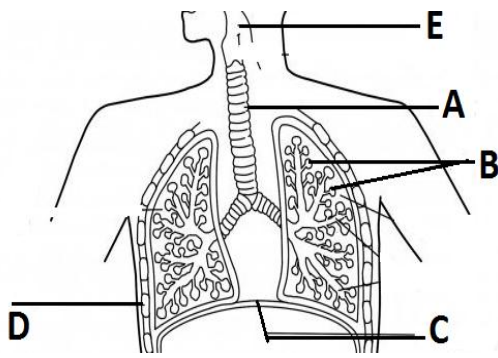
a) What is the experiment about?

b) Name soil sample marked X and Y

i) X _____ ii) Y _____

c) State the importance of soil sample Z

15. The diagram below shows the respiratory system of humans, use it to answer questions that follow.



a) Name parts labeled by letters B and C

i) B _____ ii) C _____

b) State the importance of part marked A

c) Name any one immunisable disease of the above system

PAPER TWO

SECTION A

1. Name any one state of matter.

2. Give any one example of a warm blooded animal.

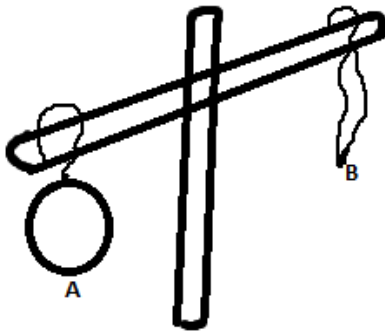
3. Identify any one exotic breed of rabbits.

4. Why should people keep their bodies clean?

5. Of what importance are reptiles to people?

6. How is a dicotyledonous seed different from a monocotyledonous seed apart from difference in germination?

7. The diagram below is about air;



What does the diagram above illustrate about air?

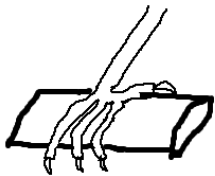
8. In which one way is water from an unclean source dangerous to people?

9. Which disease attacks bones and muscles in people?

10. Name any one block in Food Path.

11. How does sound travel through solids?

12. The diagram below shows a bird's foot.



Name the type of bird with the foot shown above.

13. Give any one example of a bird with such a foot.

14. In the space below, draw a compound fracture.

15.How can an individual participate in promotion if Primary Health Care?

16.Give the function of the gas given out by plants during photosynthesis to man.

17.Give any one way in which bacteria is useful to farmers.

18.How is pouring oil on soil dangerous to living organisms in the soil?

19.Why is loam soil the best soil for growing crops?

20.State any one effect of excessive diarrhea to a child.

21.What causes tooth decay?

22.Give any one importance of feathers to man.

23.State any one structural difference between a cock and a hen.

24.State the difference between mass and weight of an object.

25.What is rehydration?

26.Why do we boil drinking water?

27.Identify any one example of an immunisable disease caused by a virus.

28.Name the enzyme that digests fats in the body.

29.Mention any one drug that is commonly abused in your community.

30.Give any one example of amphibians.

31.How is germination similar to sweating?

32.State one way you can identify a poisonous snake.

33.Convert 40°C to $^{\circ}\text{F}$

34.Where does digestion of food end in man?

35.Mention one substance that exists in all the three states of matter.

36.What causes trachoma?

37.Mention any one natural source of heat.

38.Mention any one product got from sheep.

39. Give one reason why worker bees are unable to reproduce.

40.How do birds reproduce?

SECTION B

41.a) What are poultry vices?

b) Mention one example of poultry vices.

c) Identify any one system of rearing poultry in Uganda.

d) Give one reason why farmers should keep farm records.

42.a) Mention any two advantages of breast feeding.

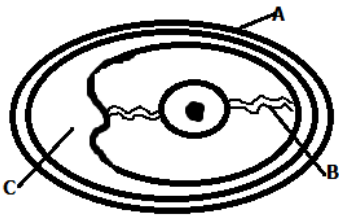
i) _____

ii) _____

b) Give one reason why breast milk is regarded as the best food for babies.

c) At what age should a mother wean her baby?

43. Use the diagram below of an egg to answer questions that follow.



a) Name parts marked:

B: _____ C: _____

b) Why is part marked A porous?

c) Name the food value obtained from eating eggs.

44.a) What is mulching?

b) State two advantages of mulching.

i) _____

ii) _____

c) Mention one example of materials that can be used to mulch gardens.

45.a) What is immunity?

b) Mention **two** ways of acquiring immunity.

i) _____

ii) _____

c) Identify the component of blood responsible for immunity.

46.a) Mention any **two** characteristics of birds.

- i) _____
- ii) _____

b) Identify any **two** groups of birds.

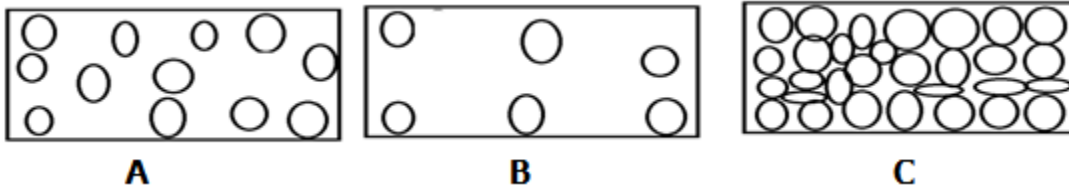
- i) _____
- ii) _____

47.a) What causes malaria?

b) State **three** ways of preventing the spread of malaria in your home.

- i) _____
- ii) _____
- iii) _____

48. The diagrams below show types of soils.



a) Identify the types of soil with the particles shown in

- A: _____ B: _____
- C: _____

b) Give one way soil is formed.

49.a) What is food preservation?

b) List down two methods of preserving food.

- i) _____
- ii) _____

c) Why should food be preserved?

50.a) Define the term **vertebrates**.

b) Why is a bat called a mammal?

c) Give any **two** groups of animals that are warm blooded.

i) _____

ii) _____

51. Match the vectors correctly to the diseases they spread.

Vectors

Blackfly

Housefly

Infected dog

Anopheles mosquito

Diseases

Rabies

Malaria

River blindness

Dysentery

52. The diagram below shows a method of finding volume.



a) Identify the method of finding volume shown above.

b) Name the containers marked A and B.

A: _____

B: _____

c) What is the volume of the stone (Y)

53.a) Write ORS in full.

b) Give any **two** substances used to make ORS.

i) _____ ii) _____

c) Mention one mineral salt lost by the body during dehydration.

54.a) Explain the term soil erosion.

b) Mention one type of soil erosion.

c) Give any two methods of controlling soil erosion.

i) _____

ii) _____

55.a) State the role if the following bees in a hive.

i) Drones :

ii) Worker bees:

iii) Queen bee:

b) Give one reason why a hive should have a queen excluder.

PAPER THREE

SECTION A (40 MARKS)

1. Give any one example of a Healthy life style.

2. How does bush burning lead to soil erosion?

3. How are chlamydia germs dangerous to humans?

4. Mention one crop that stores food in the swollen underground stem.

5. In which one way are bacteria useful to people?

The diagram below shows a process in plants. Use it to answer questions 6 and 7



6. Name the process above.

7. Why does the polythene bag used in the above diagram swell?

8. Why do people urinate less during hot days than cold days?

9. Why is top soil good for crop growing?

10. How is eating Iron – rich foods important to a P.7 pupil?

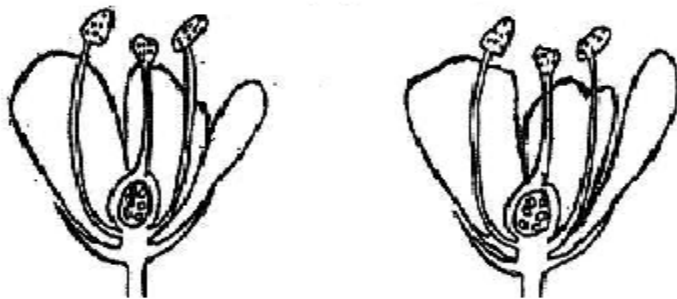
11. Name one organism that feeds saprophytically.

12. Which component of air is used in fire extinguishers?

13. What scientific name is given to the larvae stage of a butterfly?

14. Identify any one block in a town food path.

15. Use an arrow on the diagrams below to show cross pollination



16. Apart from a skin, name one other excretory organ.

17. Cite one way in which reflection is applied in our daily life.

18. Name any one method of demagnetizing magnets.

19. Identify one way through which a thermos flask controls heat loss.

20. Why are mothers encouraged to breast feed their new born babies exclusively for the first six months?

21. How can farmers prevent their bees from swarming?

22. State any one way through which contagious diseases are spread.

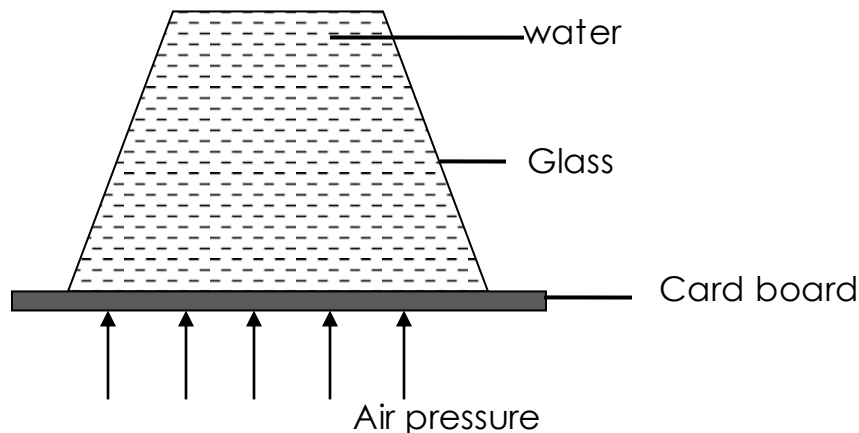
23. Why is it important to maintain good posture when eating food?

24. How are farm records important to farmers?

25. Of what importance are earth worms in soil formation?

26. Apart from breast feeding, name one natural method of child spacing.

27. State the use of the property of air below to a P.7 candidate.



28. Give any one example of a product derived from goats.

29. How does slashing tall grass near our homes control malaria?

30. Which element of PHC is promoted when a pregnant woman visits a hospital for antenatal care?

31. State one way in which a spider is similar to a housefly.

32. Benjamin crushed ginger and Calvin smelt it in the next room. Name the process that enabled Calvin to smell the ginger.

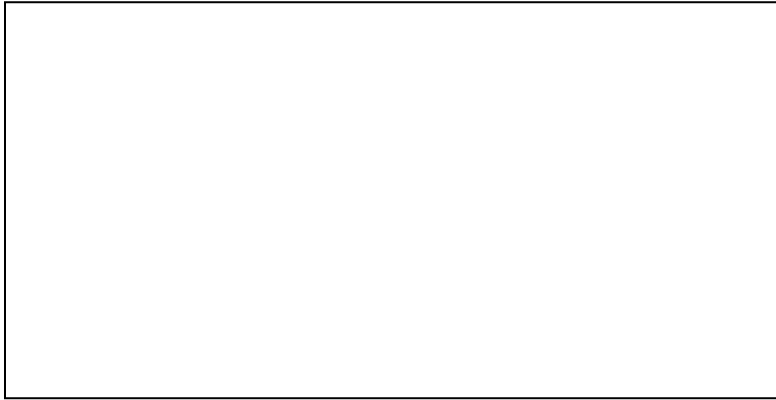
33. Convert 30°C to $^{\circ}\text{F}$.

34. How is a moth able to pollinate flowers at night?

35. Which type of energy is possessed by a box placed on a table?

36. Name one viral disease that attacks cassava.

37. The diagram below shows part of the human ear.



How useful is it to people?

38. How can a mother ensure food security for her home.

39. Which type of soil has the highest capillarity?

40. State one body organ important in regulation of body temperature

SECTION B (60 MARKS)

41. a) Name one energy resource people get from plants.

b) State any two ways of caring for plants as energy resources.

i) _____

ii) _____

c) Suggest one practical way to conserving trees as energy resources.

42. Pretty who weighs 90kg sat 3m on a see saw to balance with Hannah who weighs 54kg.

a) Draw a sketch to show the positions of the two girls (2marks)

b) How far is Pretty from Hannah? (2marks)

43. a) Why should each parent own a child health card

i) _____

ii) _____

b) Name two viral Immunizable diseases

i) _____

ii) _____

43. a) Cite one use of soil to man.

42 Suggest one disadvantage of artificial fertilizers.

43 Apart from artificial fertilizers, state any other two ways of improving soil fertility.

- i) _____
- ii) _____

44. The diagram below shows a thumb piano. Use it to answer questions that follow.



a) Name the type of musical instrument shown above.

b) Of the two metal plates K and R, which one produces the highest pitch?

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

45. a) State the main role of each of the following bees in a hive.

i) Drones _____

ii) Worker bees _____

b) Why does a bee harvester need a bee veil?

c) Name one example of a modern bee hive.

46. a) How is burning similar to rusting?

b) Give any one example of each of the following changes.

i) biological changes _____

ii) physical changes _____

c) Name the physical process that takes place when a gas changes directly into a solid. _____

47. a) State the gestation period of a sow.

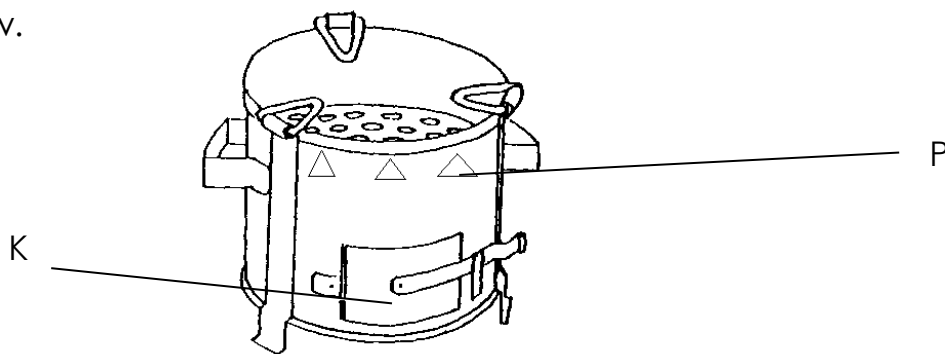
b) List down two common breeds of pigs kept in Uganda.

i) _____

ii) _____

c) Why is a pig sty made slanting?

48. The diagram below shows a charcoal stove. Use it to answer questions that follow.



State the roles of holes on the diagram labeled;

i)K _____

ii)P _____

a) Name one form of energy produced when a charcoal stove is in use.

b) How is a charcoal stove dangerous to the environment?

49. a) Why do pregnant women need proteins in their diet?

b) Why should breast feeding mothers take a lot of fluids?

c) Suggest one major nutrient a diet of an elderly must contain.

c) Explain the meaning of the term weaning.

50. Match the components of blood in list A with their functions in list B

Blood components	Functions
------------------	-----------

Blood platelets White blood cells Red blood cells	Transport oxygen Blood clotting Body defence
---	--

- i) Blood platelets _____
- ii) White blood cells _____
- iii) Red blood cells _____
- b) Name any one disease of the circulatory system

51. a) How do short plants benefit from tall trees around them?

b) Give any two methods weak plants use to climb other plants.

i) _____

ii) _____

c) Suggest one method of harvesting wood.

52. a) In a sentence, give the meaning of sanitation?

b) Give any two principles of Primary Health Care.

i) _____

ii) _____

c) Give any one disease spread to people through poor refuse disposal.

53. a) What is meant by plant propagation?

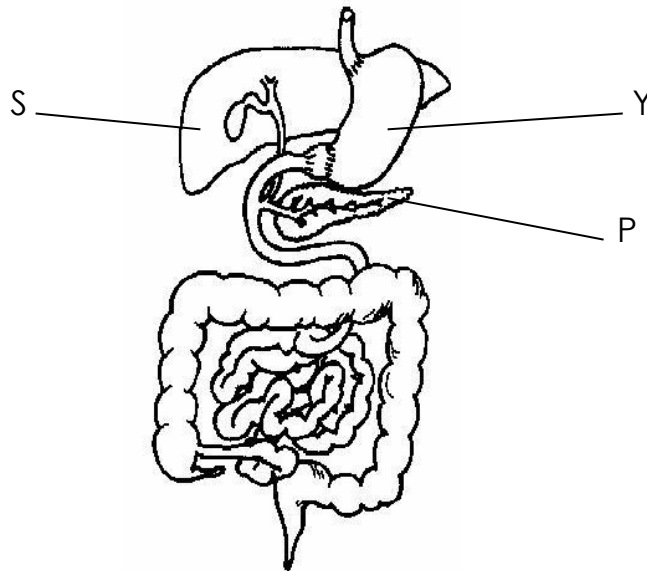
b) Apart from an onion, which other plant is propagated by planting its bulb?

c) Name the methods of propagating the following plants.

i) Pineapples _____

ii) White yams _____

54. The diagram below is part of the alimentary canal. Use it to answer questions that follow.



a) Name part **Y**. _____

b) State the function of part labeled **S**.

c) Name one food component that enhances proper functioning of the above system.

d) State one disease that attacks part labeled **P**.

PAPER FOUR SECTION A

1. What is electricity?

2. Name the electricity obtained from flowing water.

3. Identify any one source of direct current electricity.

4. Name the electrolyte used in a wet cell.

5. State any one advantage of secondary cells over primary cells.

6. Name the non-metallic conductor found in the dry cell.

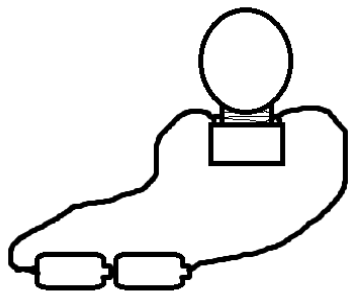
7. If a torch has two dry cells, calculate the total voltage it uses.

8. State one difference between conductors and insulators.

9. Why is distilled water not good for drinking?

10. What are energy resources?

11. Show the flow of current in the circuit below.



12. How is the work of a fuse different from that of a switch?

13. What energy change takes place in an electric bulb when in use?

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

15. Define a circuit.

16. Mention any one electrical appliance.

17. State one importance of electricity.

18. Give one advantage of using electricity.

19. How is static electricity different from current electricity?

20. Name one static electricity in nature.

21. How does a lightning conductor help to prevent lightning?

22. Identify any one danger of lightning.

23. What is magnetism?

24. Define magnetic material.

25. Mention one way solar energy can be obtained in the environment.

26. Give one way the sun is used as an energy source.

27. Mention any one example of a removable energy source.

28. Why is the earth called a magnet?

29. State the main cause of short circuits.

30. What is a magnet?

31. Mention any one example of a natural fiber.

32. Name any one animal used for ploughing.

33.What is the source of energy for plants to make starch?

34.How is heat energy important in rain formation?

35.What is a short circuit?

36.How can the strength of a magnet be increased?

37.Mention one property of magnets.

38.Mention any one example of electrical conductors.

39.What is magnetism?

40.Mention one way man uses coal as an energy resource.

SECTION B

41.a) What are energy resources?

b) Mention two energy resources from plants.

i) _____

ii) _____

c) Suggest any one use of wood to our daily life.

42.a) What is wood conservation?

b) Identify any two ways of conserving wood.

i) _____

ii) _____

d) State any advantage of an energy saving stove.

43.a) Identify the energy changes that take place in the following.

i) Water heater:

ii) Electric bulb:

iii) Generator:

iv) Motor:

44.a) Define a fuel.

b) Mention any two examples of wood fuel.

i) _____

ii) _____

c) Identify any one example of a fossil fuel.

45. Match items in A with those in B.

A
Thermal energy
Nuclear energy
Wind power
Solar energy

B
Wind
Sun
Coal
Uranium

i) Thermal energy:

ii) Nuclear energy:

iii) Wind power:

iv) Solar energy:

46.a) Name the container used for making biogas.

b) List down any two materials used in the production of biogas.

i) _____

ii) _____

c) Name the gas produced in a biogas digester.

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

i) _____

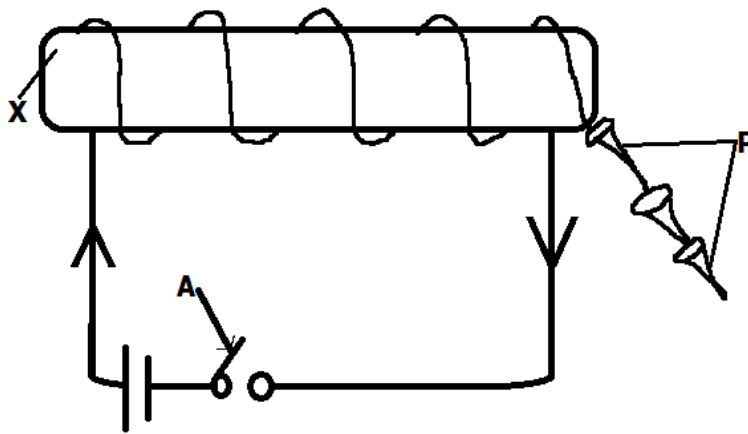
ii) _____

b) Give any two properties of magnets.

i) _____

ii) _____

48.



a) Identify the method of making magnets shown above.

b) Name pole marked with letter **X**.

c) What happens to the pins at **P** when the circuit is open?

d) Give any one way a magnet can lose its magnetism.

49. Use the following components to draw a simple electric circuit.

i) Bulb ii) Conductor iii) Dry cell

50.a) Identify any two uses of electricity.

i) _____

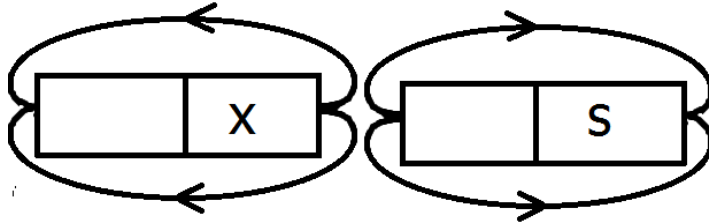
ii) _____

b) Give two advantages of using electricity.

i) _____

ii) _____

51.



a) Name the property of magnetism drawn above.

b) Name pole marked with letter X.

c) Give any one example of a natural magnet.

d) Identify any one appliance that uses magnets.

52.a) Suggest any two importance of solar energy in the environment.

i) _____

ii) _____

b) Why is a solar panel painted with black?

c) Name the type of energy possessed by flowing water.

53.a) Give two ways man uses energy resources from wind.

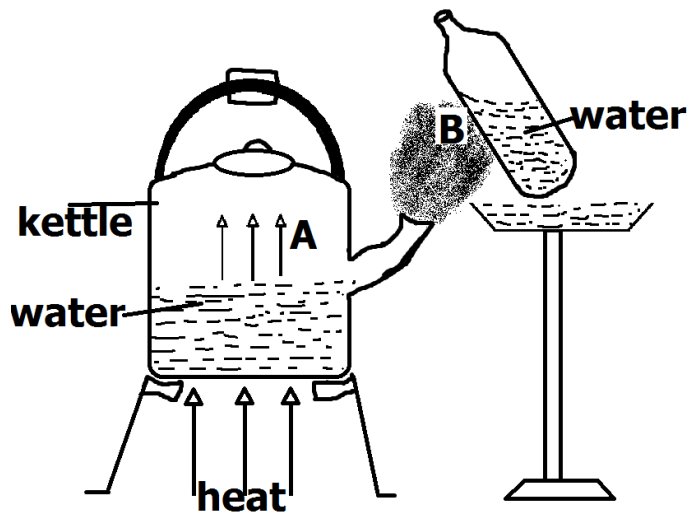
i) _____

ii) _____

b) Identify any one way wind is important to plants.

c) State the importance of oxygen during seed germination.

54. The diagram below shows a certain experiment. Use it to answer questions that follow.



a) What is the experiment about?

b) What do the following represent in nature?

i) Kettle _____

ii) Heat: _____

55. In four brief sentences, describe an experiment to show that soil contains water.

PAPER FIVE

SECTION A:

1. Name one item used for sweeping.

2. Mention any one member of a nuclear family.

3. Apart from use of chemicals, give any other way of controlling pests in a garden

The diagram below shows parts of a flower.

4. Show with an arrow and letter P the part of the flower which attracts pollinators?

5. State any one importance of transpiration to plants.

6. How important is nitrogen to legumes?

7. Apart from the eggs, mention any other dormant stage in the life cycle of a butterfly.

8. What are the standard units for measuring mass?

9. Give any one way of keeping the body clean.

10. How do mulches help to control the growth of weeds in a garden?

11. Give any one example of an annual crop.

12. The diagram below shows a garden tool.

State the use of the garden tool above to farmers.

13. Mention one exotic breed of goats that provides people with mohair.

14. Give any one way an apiarists can control the swarming of bees.

15. Apart from killing germs, how else is hydrochloric acid important in the stomach?

16. Why can't a spider be trapped by its own cobweb?

17. Give any one way AIDS can be spread from one person to another.

18. Mention any one play material made from banana fibres.

19. Write P.H.C in full.

20. The diagram shows a root system.

Mention the type of root system shown in the diagram above.

21. How is the heart of a bird different from that of a reptile?
-
-
22. State any one danger of plastics in the environment.
-
23. Write down any one danger of plants.
-
24. What does it mean to classify animals?
-
25. State any one sign of a compound fracture.
-
26. What type of change is the boiling of an egg?
-
27. Why does a plant die when salty water has been poured on its roots?
-
28. Mention the source of papyrus used in making mats
-
29. How do birds keep their feathers clean and smooth?
-
30. State any one importance of the sun to the environment.
-
31. Mention the food value obtained from eating honey.
-
32. In which season do farmers irrigate their crops?
-
33. What germ causes haemophilus influenza b?
-
34. How does keeping fish in a pond help to control malaria in a home?
-

The diagram below shows two containers with hot water.

35. Which of the two containers has more heat?

36. Give a reason for your answer in 35 above.

37. Give any one importance of rain to crops.

38. Mention any one group of people considered to be vulnerable.

39. Which property of air enables a person to suck soda with a straw?

40. How is culling different from vaccination?

SECTION B

41. (a) Name any one communicable disease caused by a fungus.

(b) State the body organ affected by the disease mentioned above

(c) Give two ways of preventing the spread of the disease mentioned in 41(b) above.

(i) _____

(ii) _____

42. (a) What is seed dormancy?

(b) Give any two factors that may cause seed dormancy.

(i) _____

(ii) _____

(c) How important is water during seed germination?

43. In the table below, part A shows body organs in the body. Part B shows functions of organs in their wrong order.

A: ORGAN

B: FUNCTION

a. Liver

Balances the level of water in the body

b. Kidney

Stores irons

c. Heart

Excretes carbon dioxide

d. Lungs

Pumps blood in the body

Select from the table the correct function and write in the space provided below.

a. Liver: _____

b. Kidney: _____

c. Heart: _____

d. Lungs: _____

44. The diagram below shows an insect. Use it to answer question 44.

(a) Name part marked X

(b) State the function of part Z to an insect.

(c) Which part of an insect balances it when flying?

(d) Give any one characteristic of insects.

45. (a) Apart from cassava and beet roots, give two other examples of root tubers.

i. _____

ii. _____

(b) Mention any one viral disease of cassava.

(c) Give any one way cassava is harvested.

46. The diagrams below show types of teeth. Use them to answer the following questions.

(a) Name the types of tooth marked S and T

S _____

T _____

(b) State the functions of the tooth marked S and T

S _____

T _____

47. (a) What causes ear canker?

(b) Apart from ear canker, mention two other diseases of rabbits.

i. _____

ii. _____

(c) Name any one exotic breed of rabbits kept in Uganda.

48. (a) What do we call the act of suckling milk from the breasts?

(b) State two advantages of a baby suckling milk from its mother's breasts.

i. _____

ii. _____

(c) Give any one disadvantage of a baby suckling milk from its mother's breasts.

49. (a) What is photosynthesis?

(b) Mention two raw materials needed by plants during Photosynthesis.

i. _____

ii. _____

(c) Give any one way in which plants use starch made during photosynthesis.

The diagram below shows a thermos flask. Use it to answer question 50.

50. (a) Name parts labeled B and D

i. B: _____

ii. D: _____

(b) Mention any one material from which part C is made.

(c) Why is part A made out of an insulator?

51. (a) Give any two way vectors spread germs that cause diseases.

(i) _____

(ii) _____

(b) Mention any two diseases whose germs are spread by vectors.

(i) _____

(ii) _____

52. Vertebrates are animals with a backbone.

Mention four classes of vertebrates.

i. _____

ii. _____

iii. _____

iv. _____

53. (a) Give two ways soil loses its fertility

(i) _____

(ii) _____

(b) Mention two ways of preventing soil from losing its fertility.

i. _____

ii. _____

54. (a) Name any one place where bacteria are found.

(b) Give two ways in which bacteria are useful in the environment.

i. _____

ii. _____

(c) What name is given to the substances that kill/prevent the growth of bacteria?

55. Below are poorly arranged steps of separating a mixture of sand and salt. Arrange them correctly.

a. Stir until all the salt dissolves

b. Boil the salt solution to dryness

- c. Put the mixture in a container and add water.
- d. Filter the mixture.

Correct steps.

- a. _____
- b. _____
- c. _____
- d. _____

PAPER SIX

SECTION A

1. Give any one common root vegetable used in the preparation of sauce at home.

2. How is the work of a switch different from that of a fuse in an electric circuit?

3. Sanitation is the general cleanliness of an area. State any one material / item used in keeping the environment clean.

Maria's parents put a potted plant in their sitting room as shown below



4. What attracted the plant towards the window?

5. State any one way in which people can use cow dung and animal urine at home.

6. How is a guitar as a musical instrument different from the xylophones?

7. Name any one problem of poor feeding that is common in many rich families in the city / urban areas.

8. Apart from tree planting, identify any one income generating project at home.

9. How are houseflies dangerous to the sense of sight?

The sign post below was found in a school compound

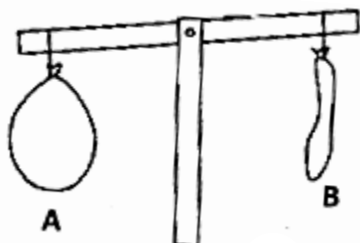


10. What does the message on the sign post encourage people in the school community to do?

11. The water hyacinth is a weed that is dangerous on our lakes. State any one danger of this weed.

12. How is comparing of prices a good factor to consider before spending money on any goods or services?

The diagram below shows a property of Air.



13. Which of the balloons has more matter?

14. Give any one advantage of lightning in the environment.

15. In the space provided below, draw a blood cell that is affected by Malaria parasites.



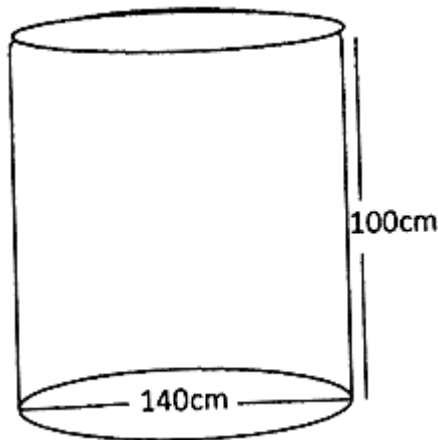
16. Identify any one perennial crop in Uganda.

17. There are four types of teeth in human beings. Name the two types which have a similar function.

i) _____

ii) _____

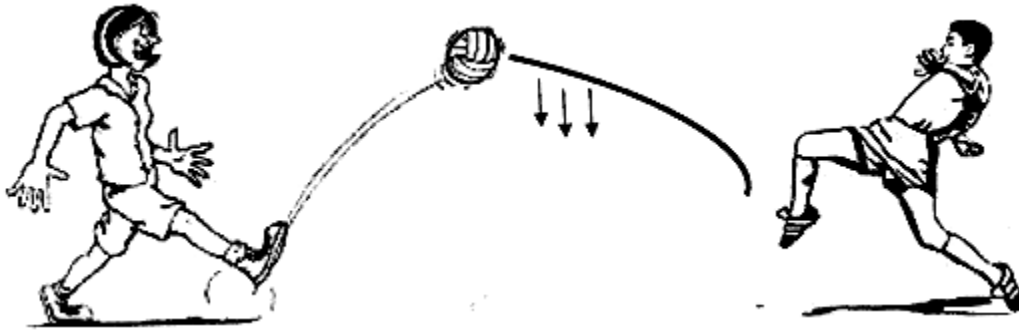
The diagram below is of a cylindrical tank



18. How many litres of water can fill the above tank to the brim?

19. Identify the fungi that help local people in our community in the brewing of alcohol from sugar and water.
-
20. State any one economic importance of insects such as mosquitoes, houseflies, cockroaches and tsetse flies.
-
21. State any one thing that can go wrong if we do not keep our bodies clean.
-

The diagram below shows the path of a soccer ball as it travels from Mess to Neymar Jr.



22. Which force is represented by the arrows?
-
23. State any one effect of deforestation to wild birds and animals.
-
24. Name the instrument that you would best use to measure the volume of a liquid.
-
25. In the space provided below, draw a seed dispersed by wind

26. Give any one function of the stomach in humans.

27. What is hibernation?

28. There are several pests that attack and destroy root crops in our garden. State any one method of controlling such pests.

29. State any one property of water

When a glass with cold water with ice was put on a table, water droplets were seen on the outside of the glass.

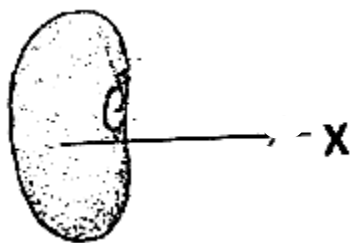


30. Which process causes the water droplets on the outside of the glass?

31. Give any one common use of shadows to people and other animals.

32. In which state of matter is ghee at room temperature?

The diagram below is of a bean seed.



33. Name the part marked X.

34. State the type of weather that people usually manage by wearing gumboots.
-
35. A safety pin is one common item found in a first aid box. Give any one use of this item when giving first aid.
-
36. Identify the group of birds that commonly keep our environment clean and free from rotting carcasses.
-
37. Identify any one life skill that may guard you against drug abuse in a boarding school.
-
38. State any one difference between a frog and a toad.
-
-
39. Give any one condition that influences the rate of transpiration in plants.
-
40. Name the raw material from which local salt can be made.
-

SECTION B (60 MARKS)

41. a) Give any two ways in which you can be involved in keeping the school environment clean.
- i) _____
- ii) _____
- b) Explain any one way school children can put to good use polythene bags that have been picked from the school compound.
-
- c) Why is it important for the sports teacher to plant grass in patched areas on the field or play ground?
-

42. a) What is the cause of the following immunizable diseases?

i) Hepatitis B

ii) Haemophilus Influenza b.

b) Name the major body organ that is affected by Hepatitis B.

c) Which vaccine is given to babies to protect them against Haemophilus influenza b?

43. There are several processes through which we prepare clean and safe water for drinking and washing.

a) Name any two of these processes.

i) _____

ii) _____

b) Identify any one common water impurity.

c) Why is it important for one to sort clothes before washing them?

44. a) Give any one example of each of the following:-

i) antisocial behaviour

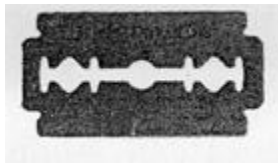
ii) sexual deviations

b) Give any two community and health problems among young people today.

i) _____

ii) _____

45. The diagram below shows a tool we use to keep ourselves clean



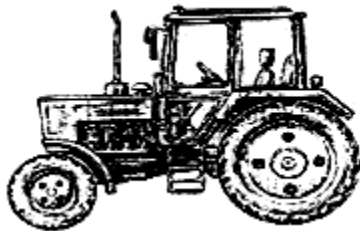
- a) How is the tool above used in keeping ourselves clean?

- b) In the absence of the above, what else can you use for the same task?

- c) State any two possible dangers of using the above tool at school.
i) _____
ii) _____
46. a) A girl used a plastic comb to make her long hair. Name the electricity she is likely to produce in the process.

- b) Name the installation in schools that is used to prevent the electricity in (a) above from killing students.

- c) Give any two ways in which electricity can be used to solve everyday problems.
i) _____
ii) _____
47. The diagram below shows a modern garden tool.



- a) Name it _____
- b) Give any two uses of the above tool on a farm.
i) _____
ii) _____

- c) State any one advantage of the above compared to the other local tools.

48. a) State any one similarity between coal and petroleum as energy resources.

b) Give any one use of each of the above energy resources to people.

i) Petroleum _____

ii) Coal _____

c) Write down one use of biogas at home.

49. a) State any two disadvantages of air.

i) _____

ii) _____

b) Why is it important for a family to harvest water?

c) Mention any one danger of rain on soil

50. a) Give any two domestic animals that neither give us milk nor meat.

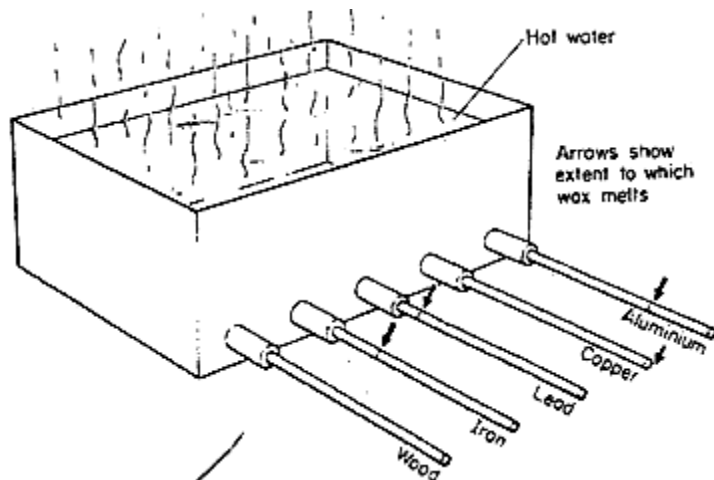
i) _____

ii) _____

b) State any one importance of keeping any of the animals you have given in (a) above.

c) Name one wild hoofed animal with an even number of toes.

51. Rods made of different materials were fixed into a trough with hot water. The rods has wax on them and the arrows show the extent to



- a) Which of the rods is the best conductor of heat?

- b) Which rod is the lowest conductor of heat?

- c) What does the above experiment show?

- d) How do people in your community use conduction of heat to solve their day to day problems?

52. Some people in Uganda keep rabbits to get income and meat.
- a) Give any two ways in which the farmers can keep these rabbits healthy
- i) _____
- ii) _____
- b) Why do farmers keep records about their rabbits on the farm?
- i) _____
- ii) _____
- c) How can you care for any of the groups of people you have given in (b) above?
- i) _____
- ii) _____

53. a) Identify any one suitable lifestyle / good health practice done by individuals in your community.

b) Name any two groups of people with special needs in your community.

i) _____

ii) _____

c) How can you care for any of the groups of people you have given in (b) above?

54. The illustration below shows a food chain

Grass → Caterpillar → hen → cat

a) Which of the above living things is both a predator and a prey?

b) What do the arrows represent in the illustration above?

c) What general name is given to the caterpillar, hen and the cat in the illustration above?

d) Why is grass said to be a producer?

55. Respiration is necessary for human life

a) Name any one end product and by-product of respiration

i) end-product

ii) by-product

b) State any one campaign you would participate in to keep other people's respiratory systems in good working conditions.

- c) Identify one disorder of the respiratory system.

PAPER SEVEN

SECTION A

1. Name the sense organ responsible for smelling.

2. Which liquid metal is used in a clinical thermometer?

3. Name the hardest part of a tooth.

4. Identify any one type of cattle.

5. Mention one solute used in the making of ORS.

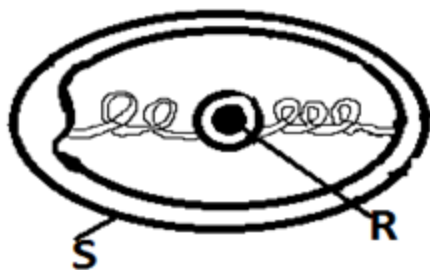
6. Besides the elderly, give another vulnerable group of people.

7. Name the breathing organs for mammals.

8. Why is a snail regarded as a vector?

9. Writ down one activity done at school to promote sanitation.

Below is a diagram of an egg. Use it to answer questions 10 and 11.



10. Why is the part marked **S** porous?

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

12. How useful are carbohydrates in our bodies?

13. Which general name is given to goats obtained by mating local breeds with exotic?

14. Name any **one** example of a non-renewable resource.

15. Which type of change is formed when metals rust?

16. Suggest **one** way in which drugs are misused.

17. How do bacteria reproduce?

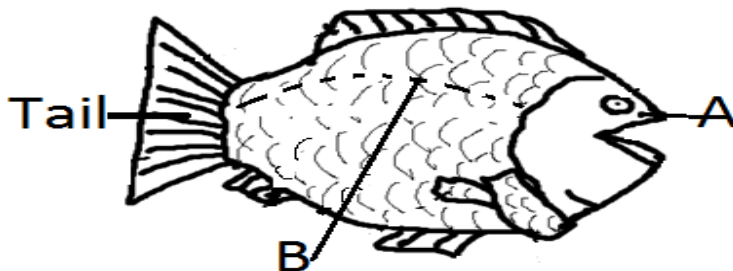
18. Which type of cloud is a clear sign of rainfall?

19. State any **one** sign of dehydration.

20. Why do we use soap when bathing?

21. Which type of chicken is kept for meat production?

Below is a diagram of a fish. Use it to answer questions 22 and 23.



22. Name part marked B.

23. How useful is part A to a fish?

24. Name the virus that causes AIDS.

25. Why is clay soil best for pottery?

26. Give any **one** example of a natural fertilizer.

27. Which structures on a granary prevent rats from entering it?

28. Name the type of energy possessed by a moving car.

29. Name the part of the skeleton that covers the lungs.

30. Suggest one way in which people can maintain the proper working of the brain.

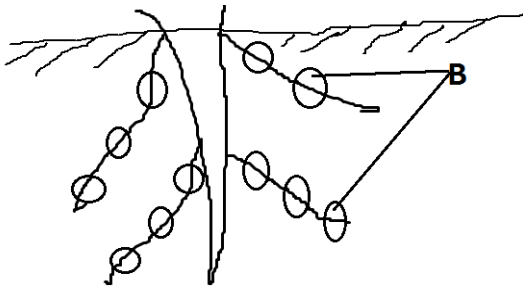
31. How useful is blubber to a sea mammal?

32. Which part of a mushroom produces and stores spores?

33. Give any one characteristic of insects.

34. Identify any one method of making alcohol.

35. Why do some objects sink in water?



36. Name structures marked B.

37. How are the structures marked N useful to the soil?

38. Give any one example of an amphibian.

39. What happens to metals when heated?

40. State any one example of a fossil fuel in the environment.

SECTION B

41.a) Differentiate between poultry and poultry keeping.

b) Mention **one** type of poultry.

c) Suggest **two** importance of keeping poultry.

i)

ii)

42.a) Which component of air is useful for seed germination?

b) Apart from the above component, name one other condition necessary for germination.

c) Name the type of germination in which cotyledons come out of the ground.

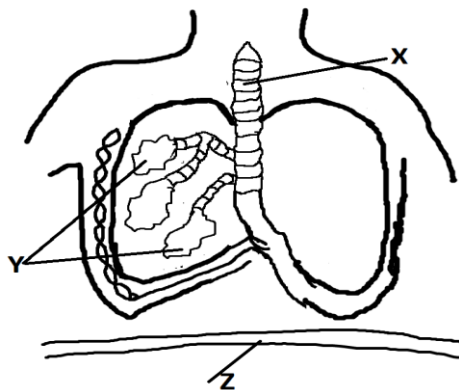
43.a) Which characteristic is common to all vertebrates?

b) In which way is the brain of vertebrates protected.

c) Mention any **two** classes of vertebrates.

i)

ii)



44.

a) Name part marked **Z**.

b) State the major process that takes place in part **Y**.

c) Why is part **X** made up of cartilage rings?

d) Name any one disease that affects the above system.

45.a) Why are birds regarded as warm blooded animals?

b) Which organs do birds use for breathing?

c) How are eggs of birds fertilized?

d) State any one importance of feathers to birds.

46.a) Which blood vessel carries blood away from the heart?

b) How useful are valves contained in the heart?

c) Name the blood cell responsible for transporting of oxygen around the body.

d) Which disease of the circulatory system is caused by a plasmodium germ?

47.a) Give two types of resources in the environment.

i)

ii)

b) Write any one of the 5Rs in resource management.

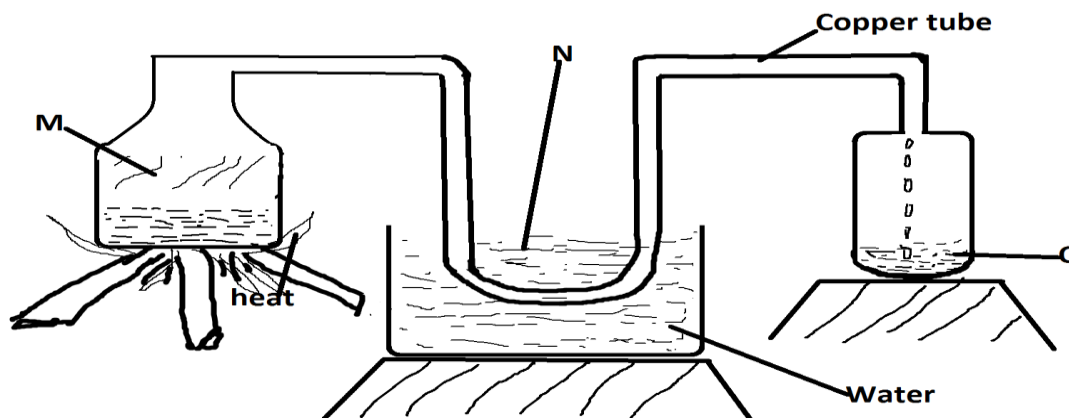
c) State any one importance of bacteria to man.

48.a) Name the sterile female bee in the hive.

b) Which term describes the keeping of bees?

c) How are bees useful to farmers?

d) How do bees protect themselves from enemies?



49.

a) Which source of fuel is used in the above illustration?

b) Name the process taking place at:

i) M: _____

ii) N: _____

50.a) In which way do reptiles move?

b) Give one example of a limbless reptile.

c) How does a tortoise protect itself from enemies?

d) In which way do chameleons help in the control of malaria?

51. Match the following garden tools with their functions.

Garden tool	function
Wheelbarrow	Loading rubbish
Tape measure	Digging in stony areas
Forked hoe	Spacing crops
Garden fork	Carrying harvested crops

i) Wheel barrow: _____

ii) Tape measure: _____

iii) Forked hoe: _____

iv) Garden fork: _____

52.a) Mention any **one** exotic breed of cattle kept for milk production.

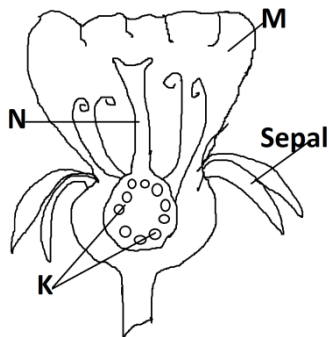
b) Define insemination.

c) State any **two** advantages of artificial insemination.

i)

ii)

53. Below is a diagram of a flower. Use it to answer questions that follow.



a) Name part marked N.

b) Why is part M brightly coloured?

c) What happens to part K after fertilization?

d) How useful are sepals to a flower?

54.a) State the basic unit for measuring mass.

b) Which force pulls down objects towards the earth?

c) Suggest any **two** states of matter.

i)

ii)

55.a) Give any **one** way in which people use tobacco.

b) State **one** reason why people smoke.

c) Name one poisonous drug contained in tobacco.

d) Mention one disease caused by smoking.

PAPER EIGHT

SECTION A (40 MARKS)

1. Name any one material used to clean our teeth.

2. Mention any one raw material used by plants to make food.

3. How are eagles adapted to their mode of feeding?

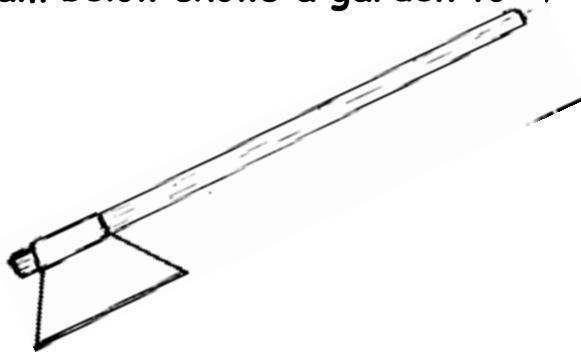
4. Why are perches put in a poultry house?

5. Which excretory product is removed from the body by the kidneys?

6. State any one characteristic common to all insects.

7. Give the meaning of pitch as used in sound energy.

The diagram below shows a garden tool.



8. How is the above tool useful to a farmer?

9. How are bees dangerous to people?

10. Which type of soil is sticky, heavy and has high capillarity?

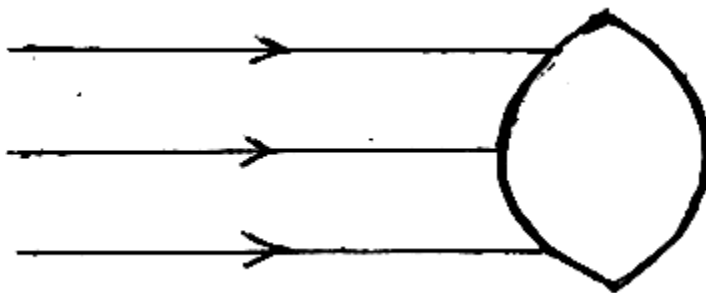
11. State any one function of blood in the body.

12. A block has a mass of 100g and volume of 25cm^3 . Find its density.

13. What type of weather supports farmers to plant their crops?

14. Why are people encouraged to smoke their pit latrines?

15. The diagram below shows a beam of light falling on a lens. Complete it correctly



16. Give one reason people give for drinking alcohol.

17. Name any one vaccine given to babies at 10 weeks.

18. State one way food gets contaminated.

19. Identify any one enzyme found in pancreatic juice.

20. State one importance of a school garden to a P.7 pupil.

21. Name any one energy change that takes place when an electric bulb is turned on.

22. Give any one drug of dependence.

23. How are polythene bags dangerous in a garden?

24. In the space below, draw the fibrous root system

25. State one way of controlling tape worm infestations for P.4 pupils.

26. Cite one example of a floating object.

27. Why is a fern able to make its food?

28. Name any one example of a crop that stores food in its aerial stem.

29. The diagram below shows a tooth.



How important is the above tooth to people?

30. Which method of grazing animals is common to farmers in urban areas?

31. State one way of caring for plants in our compounds.

32. State one disadvantage of using electricity in lighting our school.

33. State one way bacteria is useful to people.

34. Why is the trachea covered with rings of cartilage?

35. Identify one blood disorder common among children in Uganda today.

36. Give any one salt lost during dehydration.

37. What type of change is pigmentation?

38. Name one method of making water clean for home use.

39. Identify any one vector that spreads diseases by biting.

40. Why is turpid sponging encouraged among children with fever?

SECTION B (60 MARKS)

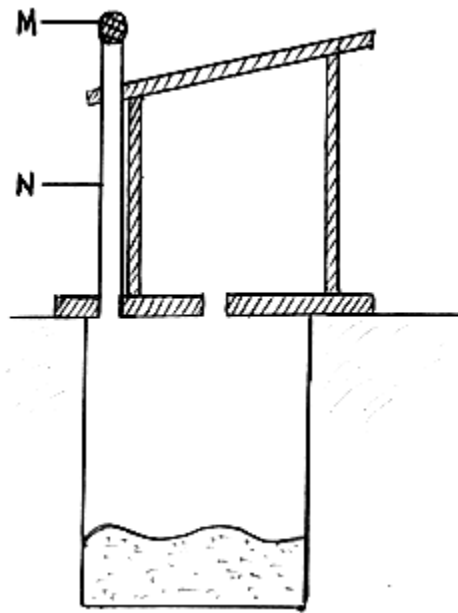
41. a) Why do farmers keep Saanen goats.

b) How do crop farmers benefit from rearing goats?

c) What is shearing as used in sheep rearing?

d) State one importance of docking sheep

42. The diagram below shows a VIP latrine. Use it to answer questions that follow



a) Name parts M and N

i) M _____ ii) N _____

b) Why is the hole of a VIP latrine not covered?

c) How can we care for the above facility at school?

43. a) What are Energy Resources?

b) Name two examples of Energy Resources in the environment.

i) _____

ii) _____

c) Which type of fuel is got from plants?

44. a) State any two uses of food in the body.

i) _____

ii) _____

b) Identify one food source of Vitamin A.

c) Which deficiency disease is caused due to lack of iron in the body?

45. a) State any two advantages of breast feeding to babies.

i) _____

ii) _____

b) Why should breast feeding mothers take a lot of fluids?

c) When may a baby be prohibited from breast feeding?

46. a) What is Menstruation?

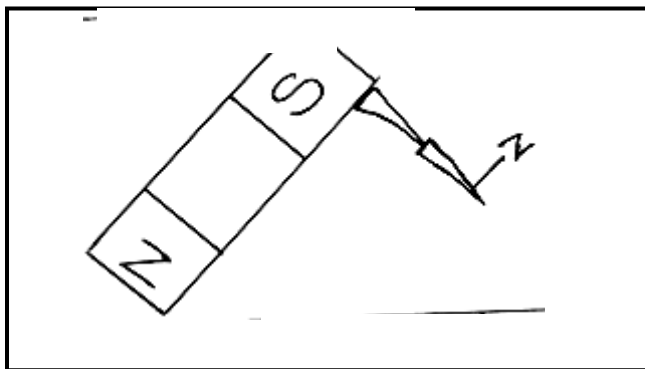
b) Name any two primary sex change in girls.

i)

ii)

c) How can a young girl maintain good personal hygiene during Menstruation?

47. The diagram below shows a method of making magnets. Use it to answer questions that follow:



a) Name the method shown above.

b) Name pole Z.

c) How are magnets useful to people?

d) State one way magnets lose their magnetism.

48. a) What is PHC?

b) Which element of PHC is promoted by the following activities.

i) eating a balanced diet.

ii) sweeping the compound

iii) giving a baby polio vaccine

49. a) What is crop rotation?

b) State two importance of crop rotation.

i) _____

ii) _____

c) Why do farmers include legumes in the crop rotation cycle?

50. a) Identify one example of machines that are grouped under

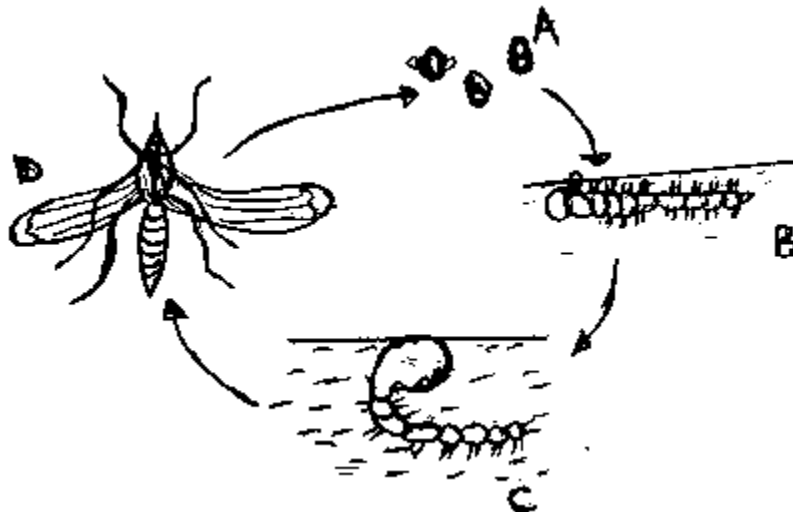
i) first class of levers.

ii) third class of levers

iii) wedges

b) Identify one way pulleys are useful on a construction site.

51. The diagram below shows a lifecycle of a mosquito. Use it to answer questions that follow



a) Name the stages A and C.

i) A _____

ii) B _____

b) What scientific name is given to stage B?

- c) How is the practice of pouring oil on stagnant water important while controlling mosquitoes?

52. a) Identify the major characteristic of mammals.

- b) Name one example of an egg laying mammal.

- c) How are mammals different from reptiles?

i) _____

ii) _____

53. The list below is of different organisms in the environment. Use them to answer questions below

MAIZE

SUN

LION

BACTERIA

MONKEY

- a) Arrange the above list as a food Chain.

- b) State the role of the sun in a food Chain.

- c) Name the primary consumer in the above list.

- d) How is a bacterium useful in a food Chain?

54. a) Name two process involved during distillation of alcohol.

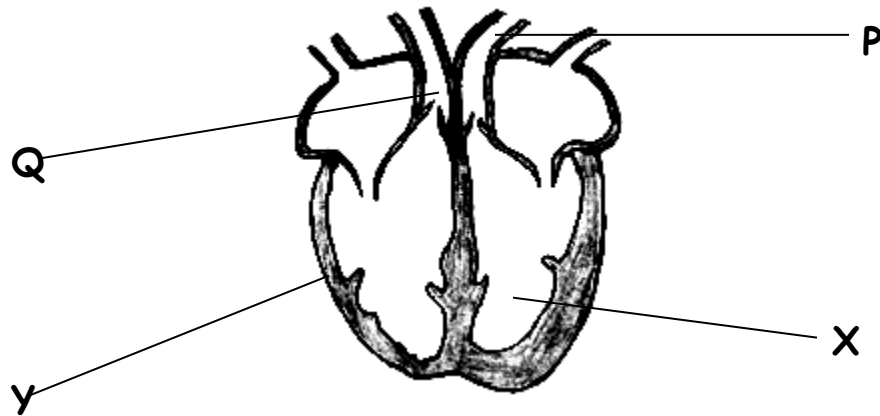
i) _____

ii) _____

- b) Give any one use of alcohol to people.

- c) How is alcoholism dangerous to people?

55. The diagram below is of the heart. Use it to answer the questions below.



a) Name the blood vessels labeled P and Q.

i)P _____ ii)Q _____

b) Why is part X thicker than Part Y?

c) Name one activity done to promote proper functioning of the above organ.

PAPER NINE

SECTION A

1. Name the gas that is necessary for germination to take place.

2. How is overgrazing dangerous to the environment?

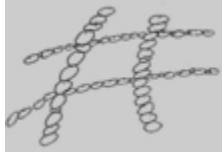
3. Name the type of manure which is obtained from animal wastes

4. Why are mushrooms unable to make their own food like other plants?

5. What is the importance of boiling water for drinking?

6. Why do some plants shed their leaves during the dry season?

Use the diagram below to answer question 7



7. Name the amphibian that lays the type of eggs above

8. Name the element of P.H.C that helps us to control population growth.

9. What is the danger of not having a latrine at home?

10. What is the immediate result of severe diarrhoea to a child?

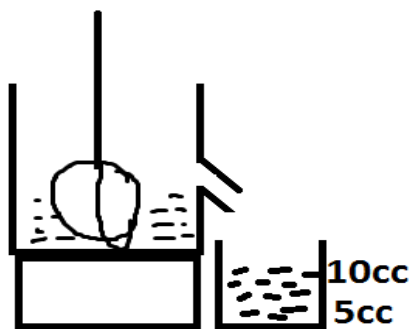
11. Name the immunisable disease that causes paralysis of limbs.

12. Apart from chicken, mention any other farm animal that is affected by coccidiosis.

13. What do we call animals that feed on grass only?

14. When air is blown in a balloon it enlarges. What property of air does this demonstrate?

Use the diagram below to answer question 15.



15. Identify the method used to find the volume of the stone

16. Why is a spider an arachnid?

17. Mention any one characteristic of birds of prey.

18. How is a bat different from all other mammals?

-
19. How does volume of sound differ from pitch of sound?
-
20. How is the ileum adapted to its function?
-
21. Apart from birds, name the other group of warm blooded vertebrates.
-
22. Of what importance is chlorophyll during photosynthesis?
-
23. How are incisor teeth adapted to their function of cutting food?
-
24. Identify the part of a cassava plant that stores food for the plant.
-
25. Apart from having humus, why else is loam soil the best soil for growing crops?
-
26. Which part of an insect has the same function as the human ear?
-
27. Give any one sign of snuffles disease in rabbits.
-
28. Apart from getting eggs and meat, give any other major reason why farmers keep goats.
-
29. Name any one fungal disease of the skin.
-
30. Which immunisable disease has similar signs like AIDS
-
31. State the importance of bacteria in a latrine.
-
32. How does mono cropping lead to loss of soil fertility?
-
33. Why is curing important to root crops such as cassava?
-
34. Which of the two is denser; cold water or hot water?
-
35. Which type of heat transfer makes currents?
-

36. What does it mean for a rodent to gnaw?

37. Insectivores and bats are nocturnals. What does this mean?

38. Name any one example of a biological change in plants

39. Identify any one material bees collect from flowering plants.

40. Identify any one process by which soil is formed.

SECTION B

- 41a) What is matter?

- b) Write down any two properties of matter

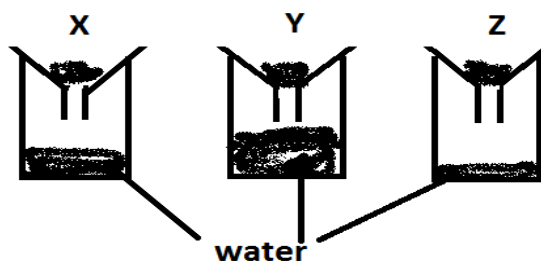
- c) In which state of matter does heat travel fastest?

- 42a) Apart from use of herbicides (chemical), state two ways of weed control in a garden.

- b) Give any one disadvantage of using herbicides (chemicals) in controlling weeds

- c) Name the farming practice done to replant seedlings that never germinated or died out.

42. Study the diagram below and use it to answer the questions that follow



- a) Identify the type of soil marked
- i) x : _____
- ii) Y : _____
- b) State one use of soil marked Z to people

- c) What does the experiment above show?

43a) How is the process of photosynthesis beneficial to humans?

b) Name any one raw material used by plants during photosynthesis

c) Mention one useful product that plants get from photosynthesis

d) Name any one part of a plant where the product named in number (c) above is stored

44a) What is mulching?

b) State the main reason why farmers mulch their gardens in the dry season

c) How does mulching help to control the growth of weeds in a garden

d) State any one disadvantage of mulching

45a) Identify any one breed of goats kept in Uganda

b) Give any one example of exotic breed of goats kept for milk

c) Which disease of goats is spread when goats are grazed in mud areas

d) Apart from not grazing the goats in mud areas, how else can the disease mentioned above be controlled in goats?

46 The diagram below shows a fungus. Use it to answer questions that follow

a) Name parts marked

i) A _____

ii) C _____

b) State the importance of part marked B to the above organism

c) Apart from the above fungus, name any other example of fungi

47a) What is breast feeding?

b) Mention any two advantages of breast feeding to a mother

(i) _____

(ii) _____

c) Apart from the mother being away, state any one condition that can lead to bottle feeding in babies.

48a) Give two ways arachnids are different from insects

(i) _____

(ii) _____

b) Apart from spiders, mention two other examples of arachnids

(i) _____

(ii) _____

49a) What are vertebrates?

b) State any one characteristic of vertebrates

c) Apart from birds and mammals, mention two other classes of vertebrates

(i) _____

(ii) _____

50a) Define the following as applied in measurement

i) **Mass**

ii) **Weight**

b) A block of wood has a mass of 24g and volume of 6cc. Find its density

c) Why does a stone thrown up fall back on the ground?

51a) Name any one material that can be used as litter in a deep litter house

b) Give any two importance of putting litter in a poultry house

(i) _____

(ii) _____

c) How is old litter useful to a farmer who grows crops?

52 The diagram below shows changes in States of matter. Use it to answer the questions that follow

a) Name the state of matter marked A

b) Name the process marked

i) B _____

ii) C _____

c) How does heat travel through solids?

53a) What are root tubers?

b) Apart from cassava and sweet potatoes, name one other example of a root tuber

c) Name any one disease that attack cassava plants in a garden

d) How can the above disease be controlled in a garden?

54) Study the animals in the table below and answer the questions that follow

R	S	T
Bats	Tilapia	Newts
Sheep	Nile perch	Salamander
Bush baby	Silver cyprinids	Toads

a) Give any one characteristic common to all animals in R, S and T.

b) State the difference between animals in R and T in their mode of reproduction

c) To which group of cold blooded vertebrates do animals in S belong?

d) Which type of fertilization do animals in R undergo?

55a) Name the part of the digestive system that produces gastric juice

b) Give a reason why absorption of food takes place in the ileum

c) Mention any two diseases of the digestive system.

(i) _____

(ii) _____

PAPER TEN

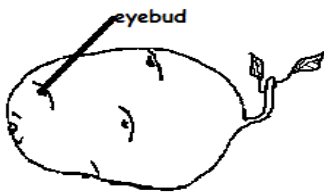
SECTION A

1. Name any one non-living component of soil.

2. Give any one reason why farmers apply manure in their gardens.

3. State any one cause of soil erosion.

Below is a diagram of a stem tuber, use it to answer question 4 and 5



4. Name the above stem tuber.

5. How important is the eye bud to a stem tuber.

6. What are the Standard units for measuring mass?

7. Give any one way a person can acquire immunity.

8. In which state of matter are molecules very closely packed together?

9. Why is water called a universal solvent?

10. What do we call the state of change from gases to liquids?

11. Name the type of energy possessed by a body in motion.

12. Why is a handle of a flat iron made up of plastic?

13. Define the term temperature.
-
14. How do bacteria reproduce?
-
15. State any one importance of keeping records on a farm.
-
16. Why are people encouraged to drink plenty of water during the dry weather?
-
17. Give any one reason why a goat is called a vertebrate.
-
18. Give any one way of caring for our skins.
-
19. Identify any one way a farmer can care for his pregnant sheep.
-
20. State any one advantage of breastfeeding to a baby.
-
21. Which deficiency disease does one get when she or he lacks Vitamin A in the body?
-
22. How do tapeworms enter our bodies?
-
23. Why is malaria called a communicable disease?
-
24. Give any one advantage of castrating male animals on a farm.
-
25. Give any one advantage for giving First Aid to a person with a fractured leg.
-
26. Why is clay soil the best for making pots?
-
27. State any one importance of bacteria to the environment.
-
28. Air is a mixture of gases. Name the gas with the largest percentage in the atmosphere.
-
29. How are houseflies able to spread germs from one place to another?
-

30. Give any one characteristic of vertebrates apart from having a backbone.

31. Give the main reason why farmers mulch their gardens.

32. What type of fertilization do birds undergo?

33. Name the body organ responsible for gaseous exchange.

34. Name the vector responsible for the transmission of river blindness.

35. Give any one exotic breed of goats kept in Uganda.

36. State any one way used to apply manure in a garden.

37. How can you separate a mixture of salt and sand?

38. Give a reason why we should keep our classrooms clean.

39. Name the garden tool below.



40. Name the vaccine given by giving drops in the mouth.

SECTION B

41. a) What are root tubers?

b) Give any one example of root tubers.

c) State any one disease of root tubers.

d) How can the disease named in (c) above be controlled in root crops?

42. a) Name any one type of chicken.

b) Give any one exotic breed of chicken.

c) Why are perches important in a poultry house?

d) Name any one disease that affects poultry.

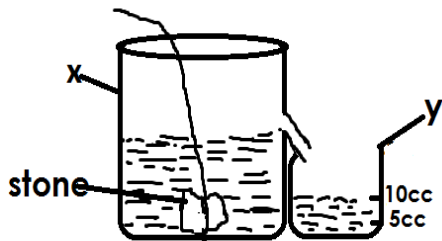
43. a) Name any one substance collected from flowers by bees.

b) Which type of bees are commonly seen around flowers?

c) State the importance of a queen excluder in a modern beehive.

d) Why are worker bees called sterile bees?

44. Below is a method used to find volume of irregular shaped objects. Use it to answer question 44.



a) Name the above method

b) Name containers marked

X: _____

Y: _____

c) What is the volume of the stone in container Y

45. a) Name the digestive juice produced in the stomach.

b) Why are we advised to chew food properly before swallowing?

c) Name any two diseases of the digestive system?

i) _____

ii) _____

46. a) Give any one example of the following.

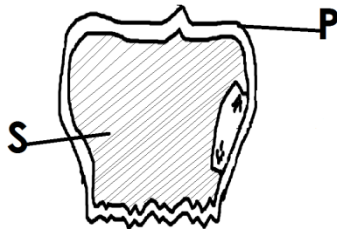
i) Chemical change:

ii) Physical change

b) How is burning similar to rusting?

c) Give any one way of managing biological changes in humans.

47. Below is a diagram of a maize grain. Use it to answer questions that follow.



a) Name parts marked S.

b) State the function of part marked P to a maize grain.

c) Why is a maize grain called a fruit?

d) Use an arrow with letter R to show in the above diagram the part that grows into a root system.

48. a) State any one effect of heat on matter.

b) Name any one source of heat energy.

c) How does heat travel through the following:

i) Solids: _____

ii) Liquids: _____

49. a) What is primary health care?

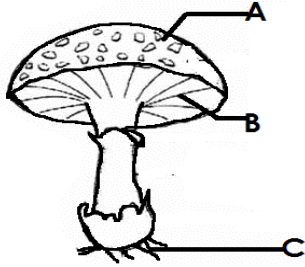
b) Identify any two elements of P.H.C ?

i) _____

ii) _____

c) How can a primary six girl promote P.H.C at home?

50. The diagram below shows a mushroom. Use it to answer questions that follow.



a) Name parts marked with letters

A: _____ C: _____

b) How important is part marked B to a mushroom?

c) State any one importance of fungi to man.

51. a) Name any two exotic breeds of rabbits reared in Uganda.

i) _____

ii) _____

b) Why should a hutch of a rabbit be built above the ground?

c) Name any one disease of rabbits that also affects poultry.

52. a) What is personal hygiene?

b) Why is it dangerous to put on very tight underpants/knickers?

c) State any one importance of maintaining personal hygiene.

d) Name any one disease one is most likely to get if he or she does not maintain proper hygiene.

53. a) Give any two characteristics of mammals.

i) _____

ii) _____

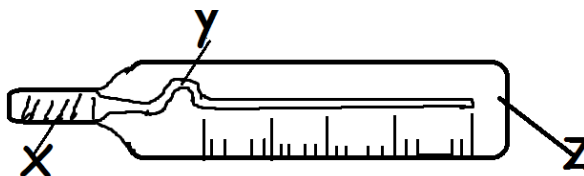
Use the animals below to answer questions (b) and (c)

A	B	C	D
Lion	Apes	Rats	Bats
Cheetah	Man	Squirrels	
Leopard	Gorilla	moles	

b) Identify the group of mammals in List C.

c) How are mammals in List D different from all the other lists?

54. Below is a diagram of a thermometer. Use it to answer question 54.



a) Name the above thermometer.

b) State the function of part marked Y.

c) Name any one liquid metal used in the thermometer above.

d) Why should the above equipment be cleaned before using it on another person?

55. a) Give any two characteristics of fish.

i) _____

ii) _____

b) Why does a fish die when removed from water?

c) State the importance of a lateral line to a fish.

PAPER ELEVEN

SECTION A

1. Name **one** vector which is involved in the spread of faecal diseases.

2. Why are farmers encouraged to clean the habitats of their domestic animals?

3. How are blood capillaries important in the human body?

4. State any **one** way of controlling tapeworm infestations in humans.

5. How important are valves in the veins?

Study the diagram and use it to answer questions 6 and 7



6. Name the garden tool shown in the diagram above.

7. How is the garden tool drawn above useful to a farmer?

8. Which type of energy is possessed by a bat in flight?

9. Give a reason why people prefer using mercury to alcohol in thermometers.

10. How do deciduous plants reduce the rate of transpiration?

11. Why is rabbit grouped under mammals?

12. Apart from sugar, name any other substance used to make oral rehydration solution.

13. Mention **one** farming practice used by crop farmers to maintain soil fertility.

Below is diagram of a bird is beak use it to answer questions 14 and 15

14. Name the type of food eaten by the bird.

15. How is the above bird adapted to its mode of feeding?

16. State any **one** way in which a latrine is useful in a home.
-
17. Name the component of blood which is destroyed by HIV.
-
18. Mention any **one** raw material needed by plants to make starch.
-
19. What name is given to the liquid part of blood?
-
20. State **one** difference between a mosquito and spider.
-
21. Why is a child with diarrhea most likely to become dehydrated?
-
22. How does smoking help to preserve food?
-
23. Apart from seeds, how else are onions propagated?
-
24. Name the digestive juice produced by the walls of the stomach.
-
25. How can poultry farmers control cannibalism on their farms.
-
26. State any **one** factor that affects the rate of evaporation.
-
27. Why are gaps left between railway lines?
-
28. How is the larva stage of houseflies useful to people.
-
29. State **one** sanitary activity that children can do to keep the school compound clean.
-

Study the diagram below of a bean seed and use it to answers that follow.

30. Name part marked with letter k.
-
31. How is part marked y useful to the seed during germination?
-
32. State the danger of leaching of mineral sail to plants.
-

33. Give one physical process that helps in rain formation.

34. In which way are termites dangerous to crop farmers?

35. Which part of the human ear helps to balance the body?

36. Apart from having humus, state any other reasons why loam soil is good in crop growing.

37. Which element of wealth is needed for the preservation of harvested seeds and grains?

38. How is blood carried by the pulmonary vein different from that carried by the pulmonary artery?

39. State the importance of mucus on the walls of the stomach.

40. Apart from curing diseases, mention any other characteristic of essential drugs.

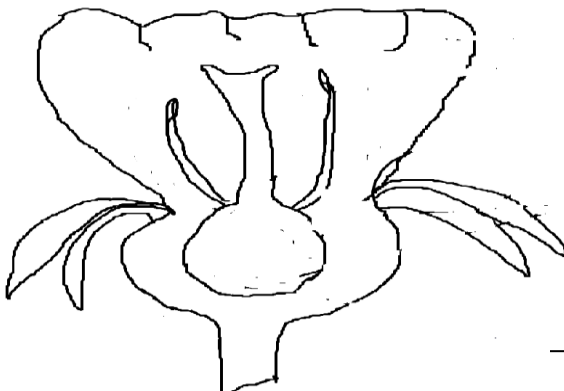
SECTION B

41. (a) Apart from amphibians state any other two groups of cold blooded vertebrates.
(i) _____ (ii) _____
- b) Why are bodies of a fish and birds streamlined?

- c) How is the reproduction of fish similar to that of birds?

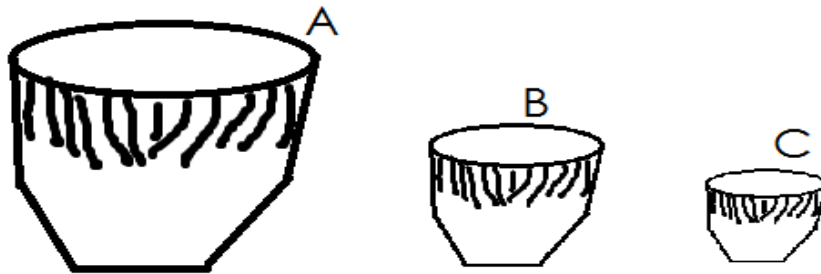
42. (a) In **one** sentence, explain the term pollination.

- b) Mention **two** types of pollination.
(i) _____
(ii) _____
- c) Which type of pollination is most likely to occur in the flower drawn below?



43. (a) Which form energy is produced after vibrations?

The diagram below show three drum, use them to answer questions (b) and (c)



(b) Which of the drums will produce sound of the highest pitch?

(c) Give a reason for your answer.

(d) Apart from size of the surface, state any other factor that affects pitch of sound.

44. (a) What is transpiration?

(b) Mention any **two** factors that affect the rate of transportation.

(i)

(ii)

45. (a) What term is given to the keeping of food free for a long time without going bad?

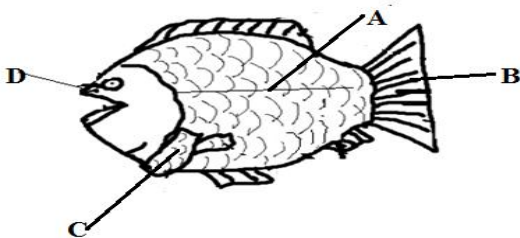
b) Mention any **two** modern ways of preserving meat.

(i)

(ii)

c) Why are people encouraged to preserve their foods?

46. The diagram below shows a fish .use it to answer question that follow.



a) Name part marked with letters

A

B

b) Which part does a fish use to protect gills from damage?

(c) How do fish help in control of deficiency diseases?

47. (a) Write any **two** duties of a worker bee in a hive.
 (i) _____
 (ii) _____
 (b) Give any **one** reason why bees swarm

 (c) How can farmers prevent their bees from swarming?

- 48(a) What term is given to plants which do not flower?

- b) Apart from spores, give any other way the above plant reproduce.

- c) Mention **two** examples of plants which reproduce by spores.
 (i) _____ (ii) _____
48. (a) Give the meaning of each of the following terms
 (i) Drug abuse

 (ii) Drug misuse

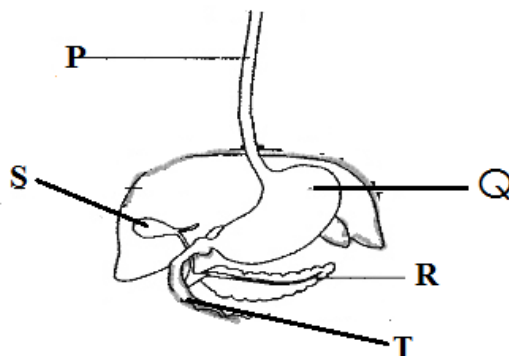
- b) State any **one** effect of drug dependence to an individual.

- (c) How can you help your friend who smokes tobacco to stop the habit?

- 50(a) Give the meaning of term immunity.

- b) State **two** ways in which a child can acquire immunity.
 (i) _____
 (ii) _____
- c) Give **one** way in which a person's body immunity can be boosted.

51. **The diagram below shows part of the digestive system in human .use it to answer the questions that follow**



- a) Name the part marked
 P _____ T _____

b) Give the digestive juice produced to part marked R

c) How can you maintain the proper working of the system shown in the diagram?

52. (a) Write **one** method of making alcohol

b) State any **two** dangers of alcohol to an individual

(i)

(ii)

c) Mention any **one** weather instrument which uses alcohol to function

53. (a) Mention any **two** characteristics of physical changes.

(i)

(ii)

b) Give any **two** examples of chemical changes.

(i)

(ii)

54. (a) What is weaning as applied to babies?

b) Mention any **two** advantages of breast feeding to a baby

(i)

(i)

d) State any **one** disadvantage of breast feeding to a mother.

55. Which term is used to describe the frequent passing of water stool?

b) Mention any **two** signs of dehydrated child

(i)

(ii)

(c) What first aid can you give to your friend who is dehydrated?

PAPER TWELVE

1. Why is vapour in the atmosphere considered as matter?

2. Mention any one possible cause of dehydration in children.

3. Of what importance are ventilators in a living house?

4. Why do most cattle keepers prefer rearing Friesians to other types of dairy breeds of cattle?

5. What happens to the pollen grains when they land on the stigma of a flower?

6. Identify the type of tooth illustrated below



7. Mention any one characteristic that makes a cat to be regarded as a carnivorous mammal.

8. How does a fish depend on the swim bladders?

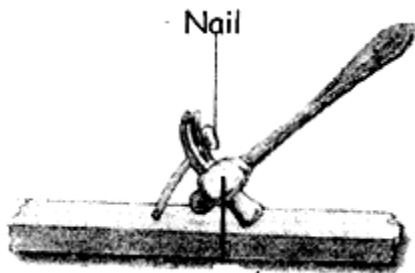
9. What method of heat transfer enables water in a saucepan to boil when put on fire?

10. Briefly explain how humus is formed.

11. How do railway line constructors prevent bending of rails during railway construction?

12. Give one characteristic that makes enzymes to be easily destroyed by heat.

Use the diagram below to answer questions 13 and 14.



13. To which group of simple machine does the tool above belong?

14. By the help of an arrow, show the direction of effort.

15. Which blood vessel distributes oxygenated blood to all body parts?

16. Why do images in a pinhole camera appear upside down on the screen?

17. Apart from excretion, write any other importance of sweating to the human body.

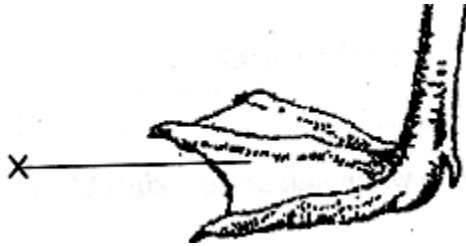
18. How does smoking lead to lung cancer?

19. Placenta plays an important role during the development of the baby in the womb. How useful is the placenta to the baby?

20. Identify the effect of too much diarrhea and vomiting to a person.

21. Which kind of injury of the muscular and skeletal system is caused by over stretched muscles?

Below is a foot of a bird



22. Which type of foot is shown above?

23. To which group of birds does the above foot belong?

24. State the usefulness of part X to birds with such a foot.

25. Which body organ in humans has the same function as the feelers of a grass hopper?

26. Why are drops of water seen around a bottle which has been removed from a fridge?

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

28. Explain a reason why electric wires appear loose on a hot day between poles.

29. On the diagram below, show how magnetic lines of force flow.



30. Where does fertilization in she-goats take place?

31. Identify any one factor to consider when selecting a suitable site.

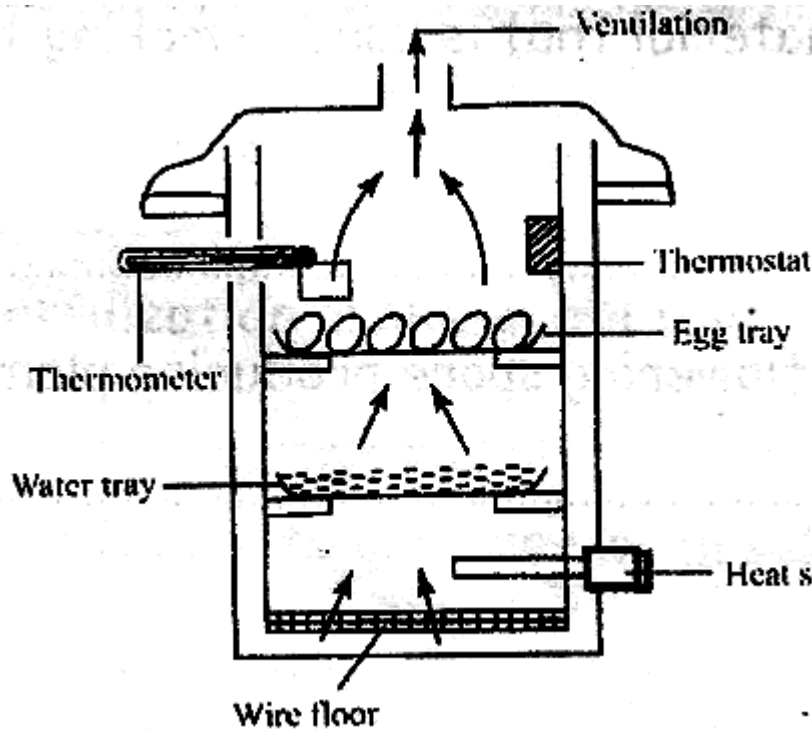
32. Identify any one urinary tract infections that can easily lead to contraction of HIV/ AIDS.

-
33. How is dusting of stores using chemical important during storage of grains?
-
34. State the food deficiency prevented by eating fish.
-
35. Mention the type of manure got from rabbitary project.
-
36. How is the small intestine adapted to its role of food absorption?
-
37. Suggest any one characteristic of seeds dispersed by animals.
-
38. Why do amphibians lay many eggs?
-
39. Name the non-metallic material that is used in making the positive terminal of a dry cell.
-
40. Write down any one non-flowering spore producing plants.
-

SECTION B

41. a) How are monotremes different from other mammals?
-
- b) What name is given to animals that are active at night and sleep during day?
-
- c) Give any two groups of vertebrates besides mammals.
- i) _____
- ii) _____
42. a) Name the static electricity in nature.
-
- b) What force helps the above type of electricity to take place?
-
- c) Give one way in which the electricity in (a) above is a disadvantage in the environment.
-
- d) How is the electricity above helpful to a crop farmer?
-

43. Study the diagram below and answer questions that follow



- a) Name the machine show above. _____
- b) What method of hatching eggs uses the machine above?

- c) Give one advantage of using the above machine in hatching of eggs.

- d) Give a reason why the machine above is not commonly used in rural areas.

44. a) How is a charcoal obtained?

b) During the processing of charcoal, state the reason why each of the following is carried out;
i) covering the wood with grass.

ii) covering the wood and grass with soft/ moist soil.

c) Mention one material recommended for stopping charcoal from burning during it's harvest.

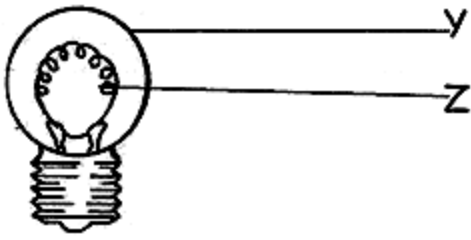
45. a) What are resources?

b) Identify any two energy resource found in our environment

- i) _____
- ii) _____

c) Why should non-renewable resources be used sparingly?

46. Use the diagram below to answer questions that follow



a) Name part marked Z. _____

b) Why part is marked z coiled?

c) State the energy changes that occur in the bulb when the circuit is complete.

d) Give the function of part marked Y.

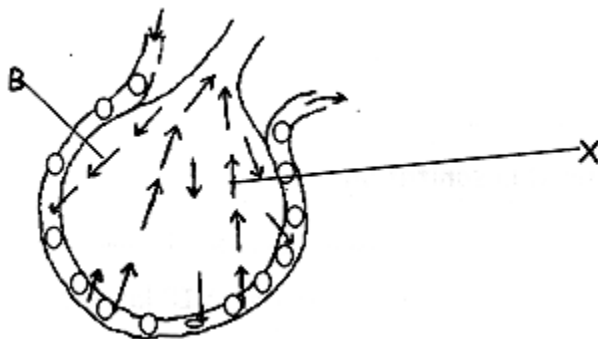
47. a) What is temperature?

b) How does increase in temperature affect plants?

c) Give one reason why mercury is used in thermometers.

d) Convert 77°F to Celsius scale.

48. The diagram below shows parts of the lungs. Use it to answer questions that follow.



a) Identify the structure drawn.

b) By what process does gaseous exchange take place in the structure above?

c) Name the gas marked X.

d) Identify any one disease that attacks the respiratory system.

49. a) Describe the term active smoking.

b) Give one reason why people smoke.

c) State one difference between drug abuse and drug misuse.

d) Identify any one non-infectious disease caused by smoking.

50. a) Write VIP in full as used in sanitation.

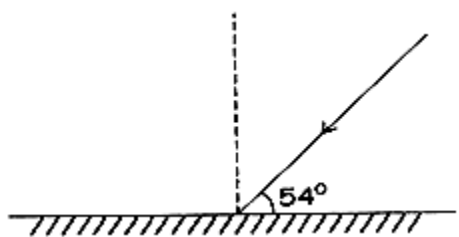
b) State the function of the following parts on a VIP latrine;

i) Vent pipe

ii) Screen

c) Suggest one way of reducing bad smell in an ordinary pit latrine.

51. a) Complete the diagram below



(2marks)

c) State the law of reflection of light.

52. a) Describe the following terms as used in sound energy.

i) Pitch

ii) Volume

b) Give any one method of storing sound energy

c) How can stored sound be reproduced?

53. **Match the following excretory organs with their excretory products**

Excretory organs

Liver
Skin
Kidneys
Lungs

Excretory products

water vapour
excess sugar
lactic acid
urine

a) Liver _____

b) Skin _____

c) Kidneys _____

d) Lungs _____

54. a) Describe the term milking.

b) Identify one way of obtaining clean milk during milking process.

c) State the importance of a strip cup during milking process

d) Give any one method of preserving milk.

55. **Study the list of organisms below;**

caterpillar, hen, cabbage, eagle

a) Which of the above organism is;

i) primary consumer _____

ii) tertiary consumer _____

b) Name the source of energy needed by the producer to make its own food.

c) Using the above organisms, construct a food chain.

PAPER THIRTEEN

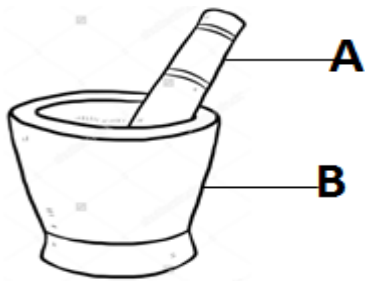
SECTION A

1. Name any **one** play material made from banana fibres.

2. State any **one** effect of alcoholism to a community.

3. Why are babies grouped under vulnerable groups of people?

4. **The diagram below shows a tool used at home.**



Name part marked B

5. State what would happen if a clinical thermometer is sterilized by boiling.

6. How are foliage leaves useful to an onion?

7. Write **one** way you would reduce egg eating on a poultry farm.

8. State any **one** danger of silting to aquatic animals.

9. **Draw a diagram to show that air has weight.**

10. Why is it a good practice to wear shoes especially when walking outside the house?

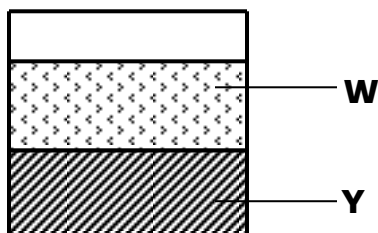
11. Which disease of the eyes is spread by a housefly?

12. State any **one** characteristic of physical changes.

13. How does over-grazing affect the soil?

14. Which water borne disease affects the liver resulting to liver cancer?

A boy put water and oil in a container as shown below.



15. Name the liquid marked **Y** in the diagram.

16. How is millet and sorghum propagated?

17. Give any **one** difference between a toad and a frog.

18. Mention any **one** factor you would consider before selecting a site for house.

19. How are children in a family protected against any deficiency disease?

20. Give **one** function of the human kidney.

21. Name the garden tool drawn in the diagram below.



22. State any **one** use of the above garden tool to a farmer.

23. Write **PIASCY** in full.

24. Write any characteristics of essential drugs.

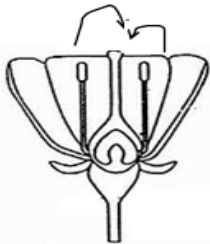
25. Give any **one** way babies acquire natural immunity.

26. Identify any **one** danger of sharing your handkerchief with another person.

27. Why are schools encouraged to have a school garden?

28. How does malaria affect the circulatory system?

29. Name the type of pollination illustrated below.



30. Give any **one** example of a stem tuber.

31. Give any **one** example of a crustacean.

32. How can a crop farmer reduce overcrowding of plants in a garden?

33. Which type of energy is possessed by water at 100°C?

34. How does the cork on a vacuum flask help to prevent heat gain or loss?

35. **The diagram is a common legume store found in rural areas of Uganda.**



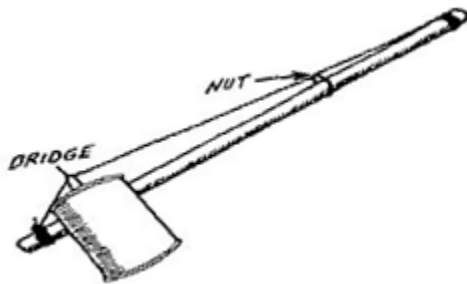
Name the legume store above.

36. As a farmer, how would you protect your metallic tools from getting rusty?

37. Write any **one** message that may be said to children during a health parade.

38. How has the government of Uganda helped in the control of tuberculosis?

39. To which group of musical instruments does the instrument drawn below belong?



40. How is the use of natural fertilizers friendly to the environment?

SECTION B

41. A farmer kept one goat and one rabbit in different houses. He used to put different types of food in their houses. He recorded the number of times they ate each food as shown below.

Animal	Sweet potatoes	Cassava leaves	Sorghum leaves	Grass	Maize leaves	Banana leaves
Rabbit	4	2	0	2	2	2
Goat	3	1	1	3	3	2

(a) What was the most favourable food for the;

(i) Rabbit _____

(ii) Goat _____

(b) What was the least favourable food for the rabbit?

(c) If the farmer was to use only one type of food, which one would be the most favourable for both the goat and the rabbit?

42. (a) Apart from carbon dioxide, name any **two** parts of air.

(i) _____

(ii) _____

(b) Give any **two** uses of carbon dioxide to people.

(i) _____

(ii) _____

43. A P.6 class at Summit primary school collected water from a well. They first boiled it before carrying out the experiment below.



(a) Identify the method that was being used to clean the water.

(b) What scientific name is given to the substances labeled **T** and **K**?

T _____

K _____

(c) Why would you encourage any child in P.6 who is thirsty to drink the water labeled **K**?

44. (a) Give the element of P.H.C responsible for;

(i) Controlling of over population _____

(ii) Controlling of bad body odour _____

(iii) Controlling killer diseases among children _____

(b) Write **one** activity you can do to promote PHC in school.

45. The diagram below shows a bird's head. Use it to answer question 45.



(a) What kind of food is eaten by the bird in the diagram?

(b) To which group of birds does it belong?

(c) Name any **one** bird that has a beak like the one drawn above.

(d) State any **one** danger of the bird you have named in (c) above to people.

46. (a) Which first aid is administered by applying cold water on the affected part?

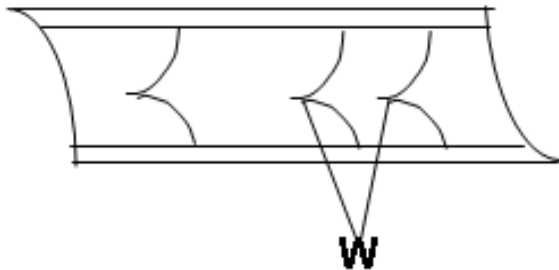
(b) Give the use of the following in first aid management.

(i) Cotton _____

(ii) Bandage _____

C) What first aid can you give to a young child who has swallowed rat poison?

47. The diagram below shows structure of a blood vessel. Use it to answer questions that follow.



(a) Name the type of blood vessel drawn above.

(b) Give a reason why blood carried by the above blood vessel flows at a low pressure.

(c) Give the importance of structures marked **W** in the blood vessel above.

(c) Using arrows (→) show the direction of the flow of blood in the blood vessel above.

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

Chameleon	external fertilization
Kangaroo	camouflages for defence
Whale	pouch for carrying young ones
Tilapia	layer of fats (blubber)

(i) Chameleon

(ii) Kangaroo

(iii) Whale

(iv) Tilapia

49. (a) What is near drowning?

(b) State any **one** cause of near drowning.

(c) Which first aid is given to a near drowned victim who has been removed from water?

(d) How does the use of a life jacket while travelling on water help to prevent near drowning?

50. a) Where does absorption of alcohol take place in the human digestive system?

(b) Give **one** reason why Vitamins and mineral salts are not digested in any part of the digestive system.

1. Give **two** adaptations of the ileum that enables it to absorb digested food.

(i) _____

(ii) _____

51. a) Identify any **one** insect that contaminates our food.

b) Write any **one** example of a disease spread through contaminated food.

c) Suggest any **two** ways you would prevent contamination of food by the vector named in (b) above.

(i) _____

(ii) _____

52. (a) Apart from paddock grazing, give any **two** systems of grazing cattle.

(i) _____

(ii) _____

(b) How does paddock grazing help to reduce tick borne diseases on a farm?

(c) Give **one** disadvantage of paddock system of grazing cattle.

53. a) Why do people feel hotter when dressed in black on hot days than when dressed in white?

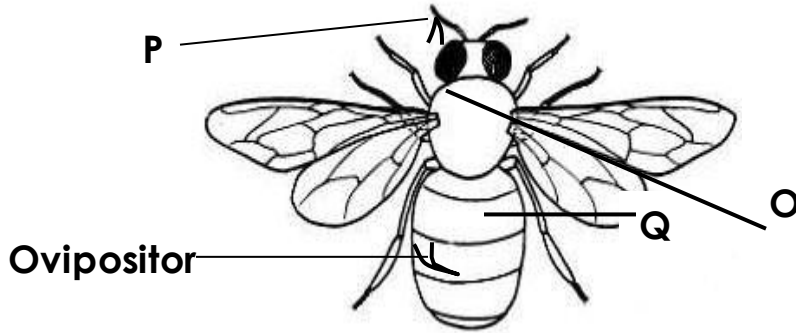
b) Name any **two** sources of heat used for cooking food at home.

(i) _____

(ii) _____

c) Identify any **one** food value that provides heat to the body.

54. **The diagram below is of an insect. Use it to answer question 54.**



a) Name part marked **O** and **P**.

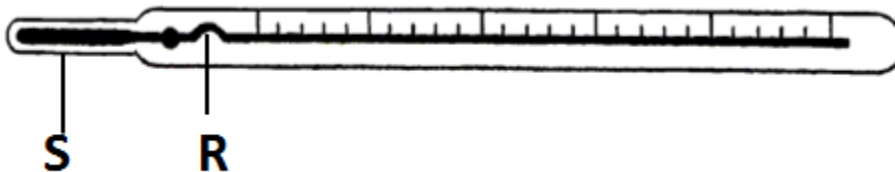
O _____

Q _____

b) How is part marked **P** useful to an insect?

c) Why do you think the insect in the diagram is a female?

55. The diagram below shows a thermometer. Use it to answer question 55.



(a) What name is given to the thermometer above?

(b) Give the function of part marked with letter **R**.

(c) Name the liquid commonly used in the above thermometer.

(d) How does a doctor sterilize the above thermometer after use?

PAPER FOURTEEN

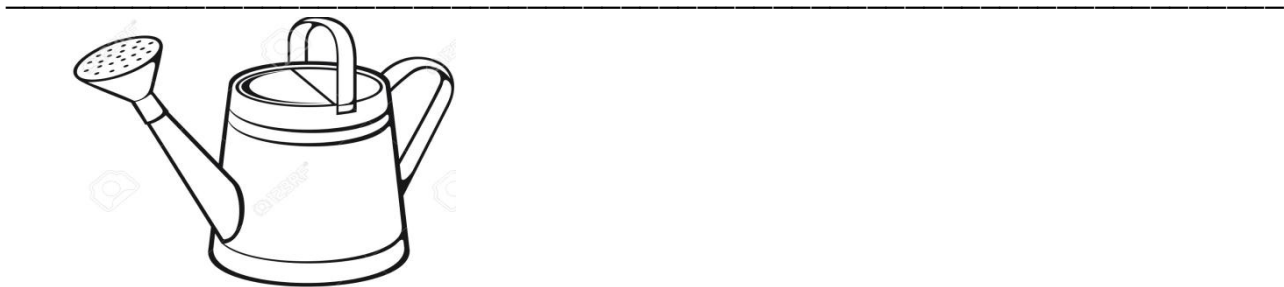
SECTION A

1. What do we call the plants that can be harvested year after year?

2. Write ECOSAN in full.

3. Give any **one** way of managing wastes in the environment.

4. Which immunisable disease in children is fought using the **BCG** vaccine?



5. What is the use of the above tool to crop farmers?

6. Which property of air enables one to drink (suck) soda using a straw?

7. Give **one** structural difference between arteries and veins.

8. State the importance of the sun during rain formation.

9. How can a P.6 pupil prevent himself/herself from getting infected with HIV/AIDS?

10. How important is oxygen during seed germination?

11. How does mulching help to prevent the growth of weeds in a garden?

12. How does castration of bulls prevent inbreeding on a cattle farm?

13. Apart from spores, how else do non flowering plants reproduce?

14. Name any **one** reptile that gives birth like mammals.

15. Name the weather instrument that measures the amount of rainfall received in an area.

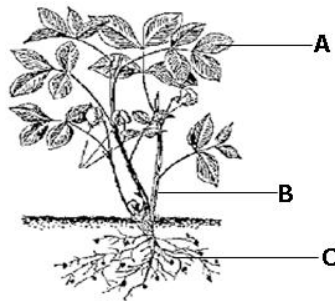
16. State any **one** way of saving electricity at home.

17. How does refrigeration help to preserve food like fish?

18. Apart from filtering blood, state one other function of the kidneys in the body.

19. Give any **one** reason why drugs should be prescribed.

The diagram below shows a plant. Use it to answer question 20.



20. Which letter shows the structure used by the plant to take in water?

21. Why are fire extinguishers painted with bright colours?

22. State any **one** importance of reflected sound to bats.

23. State any **one** sign of diphtheria in children.

24. Why are electric wires fixed loose at the poles?

25. State any **one** danger of having too much wax in the ear.

26. Name any **one** breed of goats kept for milk production.

The diagram below shows a boy washing hands. Use it to answer the questions that follow.



27. Name the hand washing tool the boy in the diagram above is using.

28. Which crop pest spreads cassava mosaic?

-
29. How are the molar teeth adapted to their function?
-
30. By what process do materials move out of the blood capillaries?
-
31. State any **one** danger of leaving babies in basins full of water.
-
32. Apart from centrifuging, state any other method of harvesting honey.
-
33. Name the type of poultry feeds given to off layers.
-
34. Name the type of energy possessed by a moving object.
-
35. Name the deficiency disease the person is suffering from.
-



-
36. Why does digestion of carbohydrates stop when food reaches the stomach?
-
37. State any **one** condition that may lead to bottle feeding in babies.
-
38. Name the water borne disease that affects bones.
-
39. State any **one** effect of alcohol to an individual.
-
40. Why should the arm of a burnt person be put in cold water?
-

SECTION B

41. (a) In **one** sentence, give the meaning of plant propagation.
-
- (b) How are the following plants propagated?
- (i) Banana _____
- (ii) Cassava _____
- (c) Name any **one** plant that produces fibre.
-

42. (a) Give any **two** reasons why animals move from one place to another.
 (i) _____
 (ii) _____
- (b) How do the following animals move?
 (i) Reptiles _____
 (ii) Amphibians _____
43. (a) List down any **one** food stuff that can be preserved by smoking.

- (b) How do the following help to preserve food?
 i) Pasteurization.

 ii) Sun drying.

- (c) Give **one** importance of preserving food.

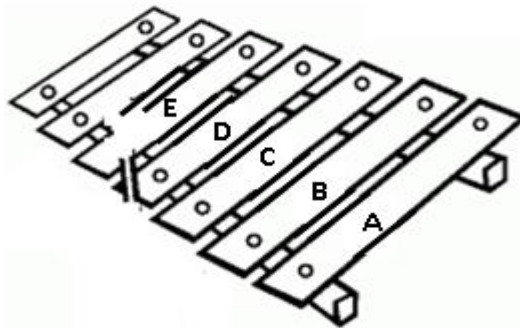
44. (a) Why is oral rehydration solution the best treatment for diarrhoea?

- (b) Name any **one** solute used in making oral rehydration solution.

- (c) State any one mineral salt replaced in the body during taking of oral rehydration solution.

- (d) How is dehydration different from rehydration?

The diagram below is of a musical instrument. Use it to answer the questions that follow.



- (a) Name the musical instrument above.

- (b) How does the instrument above produce sound?

- (c) Identify the bar which will produce the lowest pitch.

(d) To which group of musical instruments does it belong?

45. (a) State the role of the human heart.

(b) Name the blood component that transports oxygen to all body parts.

(c) Give any **two** ways in which you can increase the amount of blood in your body?

(i)

(ii)

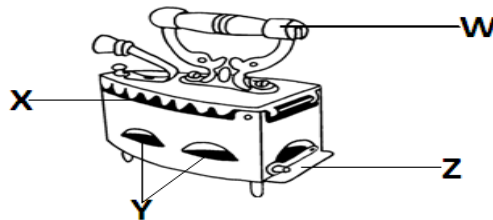
46. (a) Write any **one** disease that result from active smoking.

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

(c) State any **one** life skill that can safe guard you against smoking.

(d) How is active smoking different from passive smoking?

The diagram below is of a charcoal box. Use it to answer the question that follow.



47. (a) State the function of parts X and Y

i) X.

ii) Y.

(b) Why is part marked **W** not made up of iron?

(c) By what process does heat travel through part Z?

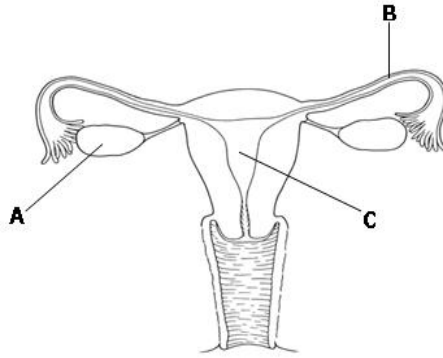
48. (a) What is immunity?

(b) Apart from protection against disease germs, state any other function of immunity to the body.

(c) Name the vaccine given against Tetanus to babies?

(d) How is the administration of polio vaccine different from that of BCG vaccine?

49. The diagram below is of the reproductive system of a woman.



e) Name the parts marked by letter **A** and **C**.

(i) **A** _____

(ii) **C** _____

f) Give the function of part marked with letter **A**.

g) Identify any **one** sexually transmitted disease that attacks the system above.

50. (a) How do hookworms enter our bodies?

(b) State **one** danger of hookworms to people.

(c) Write down **two** health habits that can help people to avoid worm infestation.

(i) _____

(ii) _____

51. (a) What is fainting?

b) What causes fainting?

c) State any **one** condition that may lead to fainting.

d) Why are the legs of a person who has fainted, raised above the head?

52. **Match the following diseases in A to B correctly.**

A

Yellow fever

Malaria

Sleeping sickness

Dysentery

B

amoeba

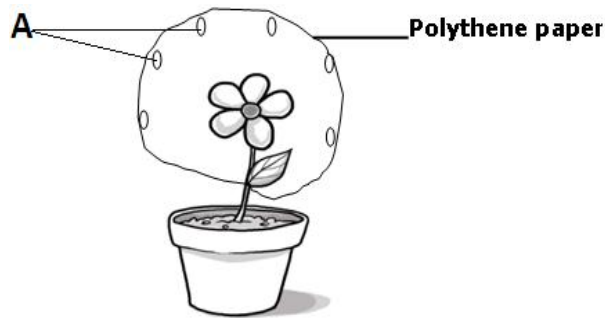
trypanosomes

virus

plasmodium

- (a) Yellow fever _____
- (b) Malaria _____
- (c) Sleeping sickness _____
- (d) Dysentery _____

The diagram below shows an experiment carried out on a plant. Use it to answer question 54.

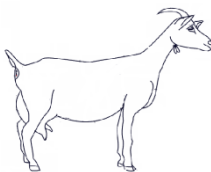


53. (a) What was the experiment about?

- (b) What is the purpose of the polythene paper in the experiment above?

- (c) Give any **two** factors that affect the rate of the above process.
 (i) _____
 (ii) _____

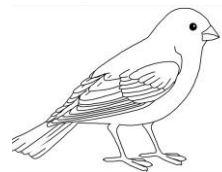
54. The diagram shows organisms in the environment. Use them to answer questions that follow.



Q



P



R

- a) In which group of vertebrates is animal P classified?

- b) How is animal **Q** different from the other animals in their mode of reproduction?

- c) State one similarity between animal **P** and animal **R**.

- b) Name the animal fibre got from animal **Q**.

PAGE FIFTEEN

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?

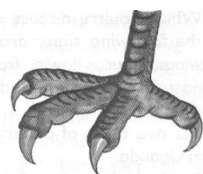
5. What does a mushroom use to reproduce?

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 foot of a bird. Use it to answer questions 9 and 10.



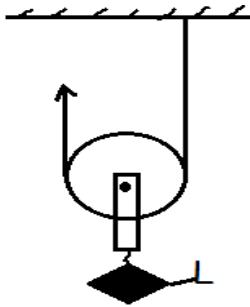
9. Name an example of a bird with this foot.

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 carbondioxide out?

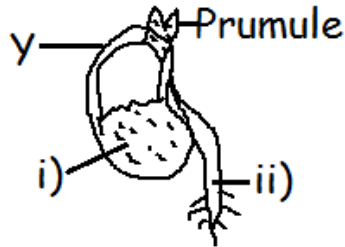
38. What is the use of a nostril to a fish?

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

(B) Function

Windsock

atmospheric pressure

Rain gauge

strength of wind

Sixth's thermometer

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: _____

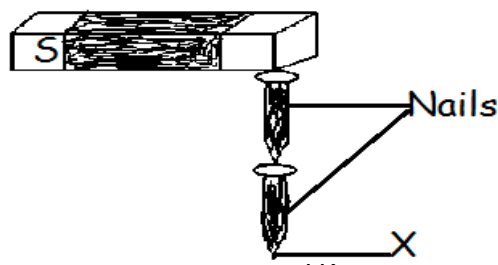
(ii) anaemia: _____

(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) _____

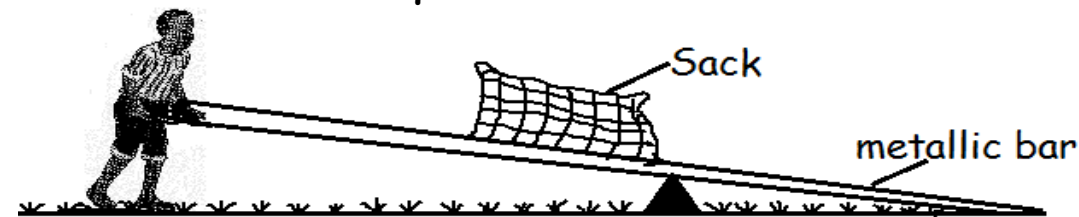
ii) _____

(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.



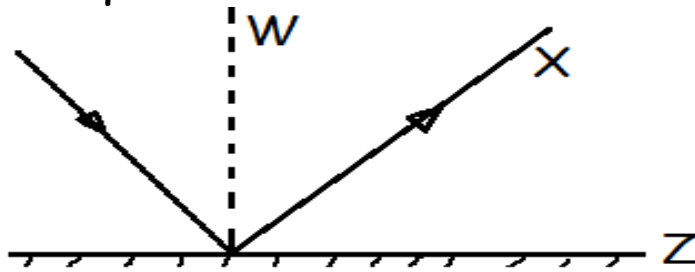
(a) Which type of machine is he using?

(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) _____

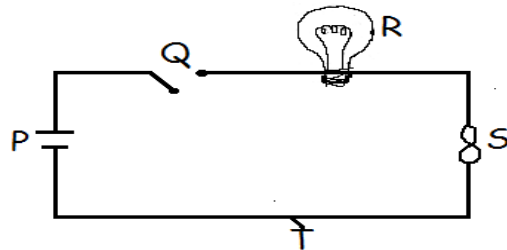
ii) _____

(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) _____

PAPER SIXTEEN

SECTION A

1. Mention any one plant material we use to clean our bodies.

2. State the function of red blood cells in the human body.

3. Give one reason why crop farmers are advised to carry out thinning for their crops.

4. Mention any one human activity which leaves soil bare.

5. Apart from making food, mention one other importance of leaves to plants.

6. Write one effect of alcoholism to an individual.

7. In which way does a hyena benefit from being near a lion in its environment?

8. Why is the skin referred to as a sense organ?

9. Give one importance of biological changes to living things.

10. State one way water is used as an energy resource in the environment.

11. Why is it not advisable to serve food using dirty hands?

12. Give one cause of anti-social behavior among young children

13. Apart from evaporation, mention one other physical process which helps in rain formation.

14. In which way is clay soil useful to brick makers?

The diagram below shows a simple machine. Use it to answer question 15.

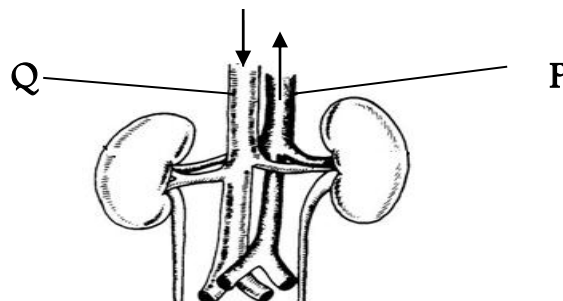


15. To which group of simple machine does the one shown above belong?

16. Give a reason why pit latrines should be constructed at least 30 metres from a water source.

17. Write one difference between an earthworm and a rat in their structure.

The diagram below shows an excretory organ. Use it to answer question 18



18. Give the difference between the blood carried by blood vessels labeled P and Q.

19. How are pineapples, bananas and sisal propagated?

20. Okello is a hunter in a village. Give one way he can keep his meat for long without rotting.

21. State the importance of sorting seeds before planting.

22. Mention one activity in which decanting is used at home.

23. How are birds like ducks adapted to swimming in water?

24. Give any one way farmers can care for bees in apiary?

25. What happens to the volume of a liquid when frozen?

26. State any one physical characteristic which separates an adolescent boy from an adolescent girl.

27. In which way are bacteria important in soil formation?

The diagram below shows an example of a long bone in the human body. Use it to answer questions 28 and 29.



28. State the part of the human body where the above bone is found.

29. Give the difference between the joint found at M and the one found at N.

30. Mention any one activity school children can carry out to promote immunization services to the community.

31. Write any one natural factor which makes people to lack water in an area.

32. Which property of air enables us to drink soda using a straw?

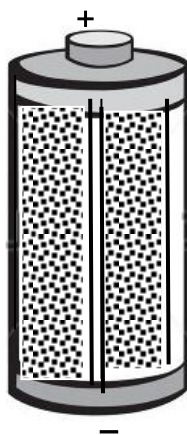
33. Give one way of caring for an in-calf on a cattle farm.

34. State one way pedestrians can cause accidents on the road.

35. Mention one way termites benefit from the soil.

36. Write one method of preventing the easy spread of skin infection like ringworm and leprosy.

The diagram below shows a dry cell. Use it to answer questions 37 and 38



37. Using letter P, show the non-metallic conductor of electricity in the diagram above.

38. Name the form of energy stored by the cell shown in the diagram above.

39. Mention any one activity children can carry out to keep the floor of the house clean.

40. Give any one characteristic of wind pollinated flowers.

SECTION B (60 MARKS)

41. Give a reason why an iron nail can be attracted by a magnet.

i) _____

ii) _____

b) Write any two importances of magnets in our daily life.

i) _____

ii) _____

c) State one way of protecting magnets against demagnetization.

42. In which state of matter is each of the following substances?

i) ash _____

ii) vapour _____

b) Which form of energy changes water to vapour?

c) Name the product got from burning wood in a limited supply of oxygen.

43. State two parts of the human ear which are not involved in hearing.

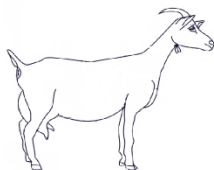
i) _____

ii) _____

c) Apart from ears, mention any one other organ vertebrates used for detecting sound in their surroundings.

d) Why is it not advisable to clean the ears using sharp materials?

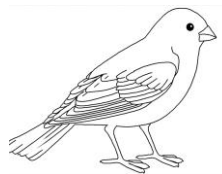
44. The diagram shows organisms in the environment. Study it carefully and answer questions that follow.



Q



P



R

a) In which group of vertebrates is animal P classified?

b) How is animal **Q** different from the other animals in their mode of reproduction?

c) State one similarity between animal **P** and animal **R**.

e) Name the animal fibre got from animal **Q**.

45. State the function of each of the following in a simple electric circuit.

i) Conductor

ii) Voltmeter

b) Name the electric device which carries out the following:

i) Changes electric energy into heat and light.

ii) Converts electric energy into mechanical energy.

c) Why should medical drugs be well prescribed before they are given to patients?

46. Give any two characteristics of essential drugs.

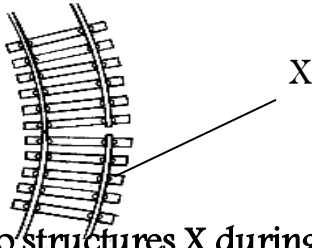
i) _____

ii) _____

b) Mention any one example of an essential drug used to reduce pain.

c) Why should medical drugs be well prescribed before they are given to patients?

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



a) What would happen to structures X during hot weather if the gaps were not left?

b) Give a reason for your answer in (a) above.

c) Why are structures marked X made of metal?

d) State the importance of looking right, left and right again before crossing the railway line.

48. Mention the programme which teaches pupils about HIV/ AIDS in schools.

b) Write any two messages passed on to the pupils during the programme mentioned in (a) above.

i) _____

ii) _____

c) Why does the above programme encourage pupils to abstain from sex?

49. a) Explain what happens to each of the following when we breathe out.

i) The ribs _____

ii) The diaphragm _____

b) Name the fluid which reduces friction between the lungs and the ribcage.

c) Give a reason why it is advisable to breathe through the nose.

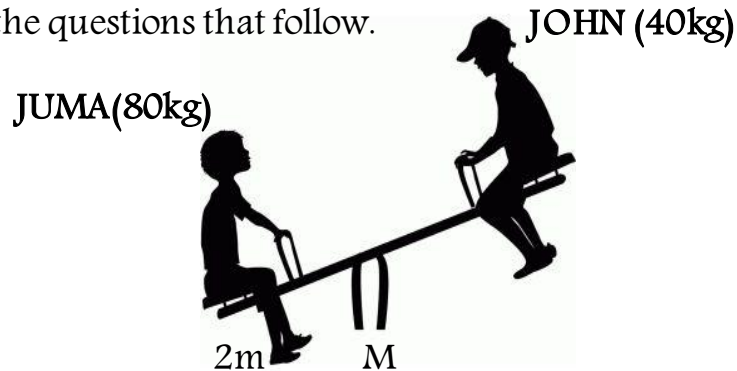
50. What term describes a condition when food is not properly digested in the body?

b) Give any two causes of the condition named in (a) above.

i) _____

- ii) _____
- c) Write one way of preventing the condition named in (a) above.
- _____

51. The diagram below shows two boys playing on a see-saw. Study it carefully and answer the questions that follow.



- a) In which class of levers is the machine above classified?
- _____
- b) Name point marked M.
- _____
- c) How far is John from Juma? (2marks)
- _____

52. A cow was found with the following signs

- Sores in the mouth and hooves
- Difficult in moving
- Frequent salivation

a) State the disease the cow is likely to be suffering from.

b) What causes the disease mentioned in (a) above?

c) Give two ways a farmer can prevent the cow from spreading the infection to other animals on the farm.

- i) _____
- ii) _____

53. Name the garden tool which helps a crop farmer to transplant seedlings.

b) Give two reasons why transplanting is carried out in the evening.

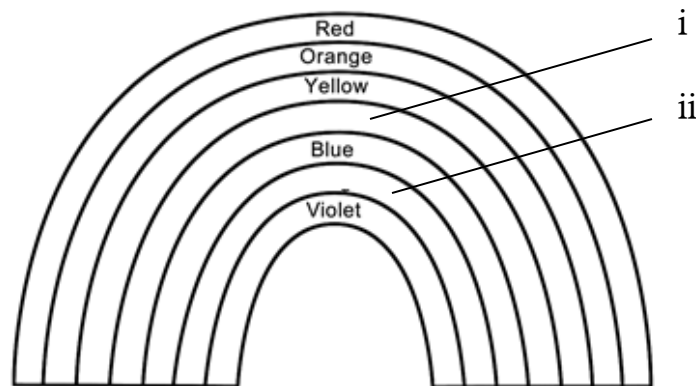
i) _____

ii) _____

c) Mention one activity that can be carried out to care for seedlings after transplanting.

54. The diagram below shows a rain bow.

a) Complete it by naming the missing colours



i) _____

ii) _____

b) Name any two primary colours.

i) _____

ii) _____

55. Name the set of teeth found in babies.

b) Which type of teeth is missing in the set of teeth mentioned in (a) above?

c) Give a reason why babies should be given soft food.

d) State one way mothers can promote the strong growth of teeth in their children.

PAPER SEVENTEEN

Questions 1 to 49 carry one mark each

1. Name the human body organ which enables the learners to remember what is taught by the teachers.

2. What component of air is used in extinguishing fire?

3. Why should fruits be washed before they are eaten?

4. Give one human activity that has led to the destruction of wetlands.

5. How does a fish help in controlling the spread of malaria?

6. State any one practice on a school garden that helps to improve soil fertility. _____
7. What force enables a match-stick to light when it is struck at the side of its box?

8. Give any one way in which an Umbilical cord is important to developing foetus in the uterus.

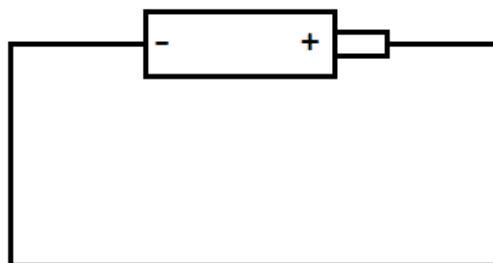
9. Apart from hearing, give any one other function of the human ear.

Below is a scavenger bird. Use it to answer the question that follow.



10. What is the importance of the above bird in promoting the health in the community? _____
11. How is the function of the pulmonary artery different from that of other arteries?

-
-
12. State the compass direction in which a freely suspended magnet will rest.
-
13. Why does a stone sink when it is placed in a bucket full of water?
-
14. Patrick can only read his notes when the book is a distance not more than one meter from his eyes. What advice can you give him?
-
15. Give any one way grasshoppers are important to people.
-
16. When it is said that Isaac is anaemic. What mineral is he lacking in his blood?
-
17. How can the School Health Committee tell whether a child is already immunized against measles without referring tot the Child-Health Card?
-
18. Give one way in which plants benefit from animals.
-
19. Why are minerals grouped under non renewable resources?
-
20. State any one use of a skeleton to a monkey.
-
21. State any one way of avoiding tooth decay.
-
22. What is the use of an anemometer to the weather station?
-
23. What type of family has the following people: Husband, Wife, Son and Niece?
-
24. In the diagram below , indicate using an arrow the direction of the flow of electricity.

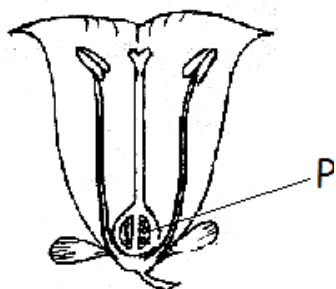


25. State one reason why loam soil is good for plants.

26. Give any one reason why people should test their blood for HIV/AIDS.

27. What is the use of a dust bin at a school?

28. Explain why light is seen before sound is heard during lightening on a rainy day? _____
29. What does the part labeled P become after fertilization in the flower shown below?



30. Apart from the type of soil, name one other factor to consider when constructing a house.

31. Mention one of the services of Public health Care (PHC).

32. Give one difference between a pit latrine and a VIP latrine.

33. Why do electricity wires hanging on electric poles sometimes appear loose and at other times?

34. Give any one way a farmer can improve on the local breeds of cattle.

35. How is the reproduction of a duck-billed platypus different from other mammals?

-
-
36. Why is it dangerous to stay near someone who is smoking?
-
37. State any one physical change which occurs in female adolescents but not in male? _____
-
38. Sanita keeps her left over food well covered. Why does it go bad after some time? _____
-
39. State any one way in which echoes are useful to bats.
-
40. Give one reason why mercury is used in thermometers instead of water.
-
-

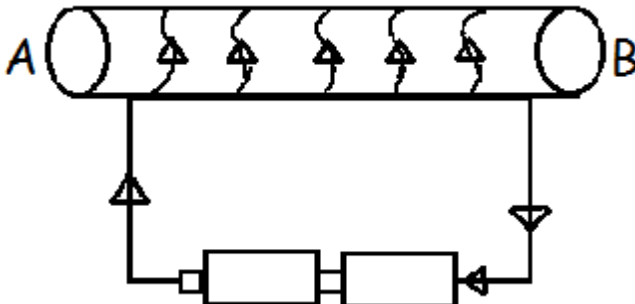
SECTION B

Questions 41 to 55 carry four marks each.

41. (a) Give any two uses of water in our homes.
i) _____
ii) _____
(b) State any one way water can be contaminated.

(c) Give any one way water can be made safe for drinking.

42. The diagram below shows a method of making a magnet. Study it and use it to answer the questions that follow.



- (a) Name the method of making a magnet shown in the diagram above.
-
- (b) What pole will the part marked A become?
-

(c) What would you do to dry cells in order to increase the strength of the magnet?

(d) State any importance of magnets to people.

43. (a) Give one reason why a frog is able to live on land and in water comfortably.

(b) Give one difference between a frog and a toad.

(c) State any one importance of frogs to people.

(d) How does a frog protect its eggs laid in water from being eaten by its enemies?

44. Some diseases can be treated without the use of drugs.

(a) Give one example of such a disease.

(b) How would you treat the disease you have named in (a) above?

(c) Give one reason why drugs should be prescribed by health workers before they are used by sick people.

(d) Name any one essential drug.

45. Match items of group A with those of B.

List A

Heart

Kidney

Skin

Lung

i) Heart:

List B

carbondioxide

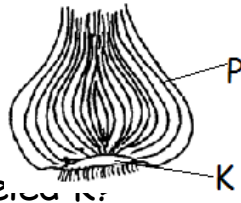
sensory organ

circulation of blood

urine

- ii) Kidney: _____
iii) Skin: _____
iv) Lung: _____

46. The diagram below shows an onion study and use it to answer the questions that follow.



(a) Name the part labeled K.

(b) What is the function of part labeled P?

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

(d) How is the above plant propagated?

47. (a) Give any three artificial methods of family planning.

- i) _____
ii) _____
iii) _____

(b) State any one advantage of family planning to parents.

48. (a) Apart from reducing the effort force needed to do work, give any other two advantages of using machines.

- i) _____
ii) _____

(b) Name any two types of machines.

- i) _____
ii) _____

49. A boy of P.7 fell down from a mango tree on a school compound and broke his thigh bone.

(a) Name the injury which the boy got?

(b) State any two ways in which the boy can be given First aid.

i) _____

ii) _____

(c) What is the importance of giving First aid to a boy?

50. (a) Give any two reasons why people should be stopped from using polythene bags.

i) _____

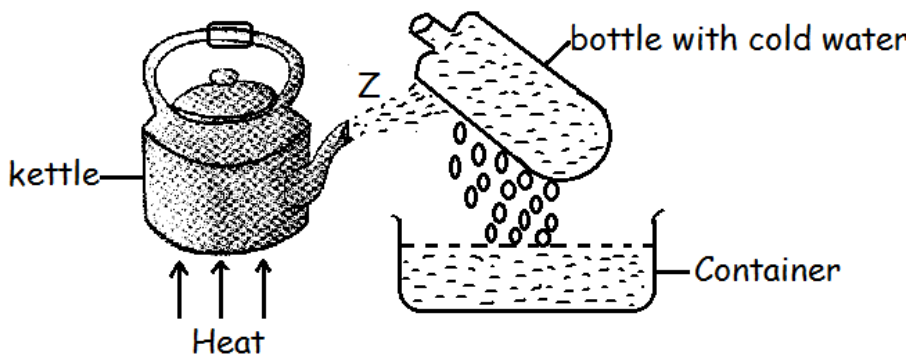
ii) _____

(b) Name two steps should the government take to make sure that people totally stop using polythene bags.

i) _____

ii) _____

51. In the diagram below water in a kettle is being heated and at the same time water is being collected.



(b) By what process is water being collected in a container formed?

(c) What form of energy has led to the formation of the substance marked Z?

(d) After sometime of heating, there will be no more water in the kettle. What will have happened to the water?

52. (a) Lightning can destroy buildings, give any other two dangers of lightening.

i) _____

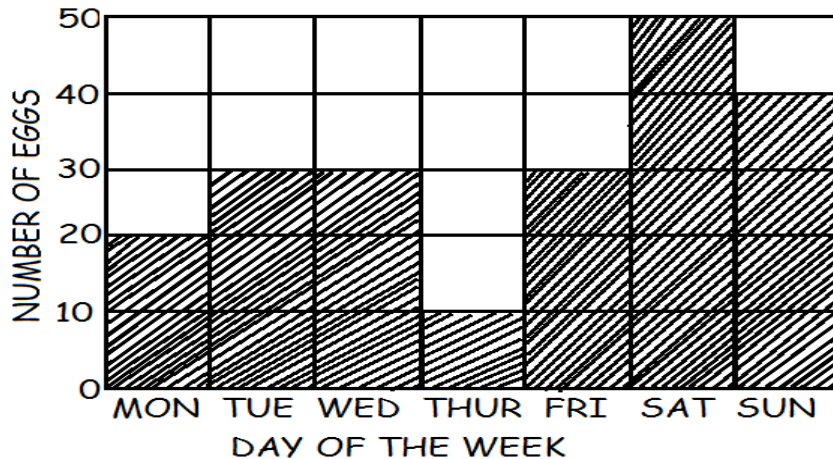
ii) _____

(b) Give any other two ways in which people can protect themselves from dangers of lighting.

i) _____

ii) _____

53. The graph below shows the number of eggs laid daily on Bbosa's poultry farm. Study it carefully and answer the questions that follow.



(a) On which day was the highest production of eggs recorded?

(b) How many eggs were laid on Tuesday?

(c) If an egg costs shs.300, how much money was collected from the eggs laid on Friday?

(d) Suggest one problem which could have caused the low production of eggs on Thursday.

(a) State any one advantage of breast feeding to the:

(i) Mother: _____

(ii) Baby: _____

(b) Give one disadvantage of bottle feeding to the baby.

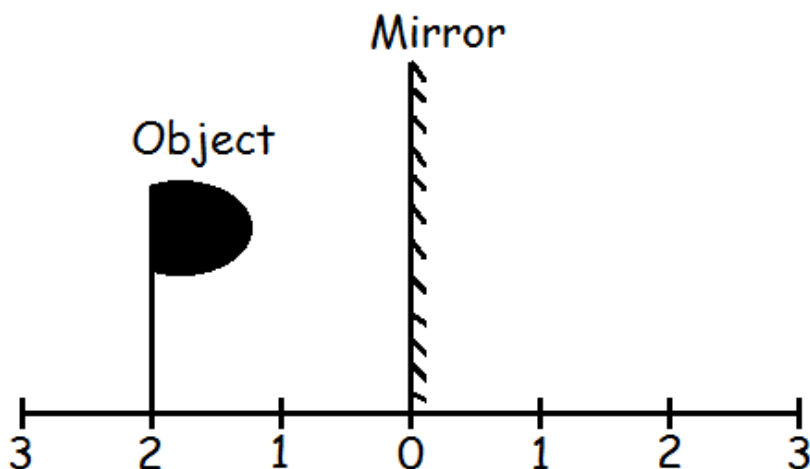
(c) What name is given to a meal containing all the food values in their right amounts?

54. State any three importance of physical exercises to school children.

- i) _____
- ii) _____
- iii) _____

(b) State any one danger of strong physical exercises to nursery children.

55. The diagram below shows an object Y placed in front of a plane mirror M. Use it to answer the questions that follow.



(a) Draw on the diagram above the image of the object P.

(b) Give any two characteristics of images formed in such mirrors mentioned above.

- i) _____
- ii) _____

(c) State any one use of side mirrors to motorists.

PAPER EIGHTEEN

SECTION A(40 MARKS)

1. Name any one non flowering plant.

2. How is the immunization programme important to people in Uganda?

3. Identify any one way of controlling water borne diseases.

4. Name any one food stuff that is pounded or ground before cooking.

5. State any one difference between a dove and a rat.

6. Give an example of a water impurity.

7. Mention any one reason why children eat food.

Study the diagram of a fruit below and answer questions 8 and 9



8. Use letter K to indicate the plumule on the above fruit.

9. Why is the above grain called a fruit?

10. What advice would you give to a mother whose child is suffering from kwashiorkor?

11. Identify any tick-borne cattle disease.

12. Why should a P.7 pupil brush his/ her teeth after every meal?

13. Identify the best family planning method which controls STDs among married couples.

14. Besides killing germs, how else is hydrochloric acid important in the stomach?

15. Why are bee keepers advised to put be hives in quiet places?

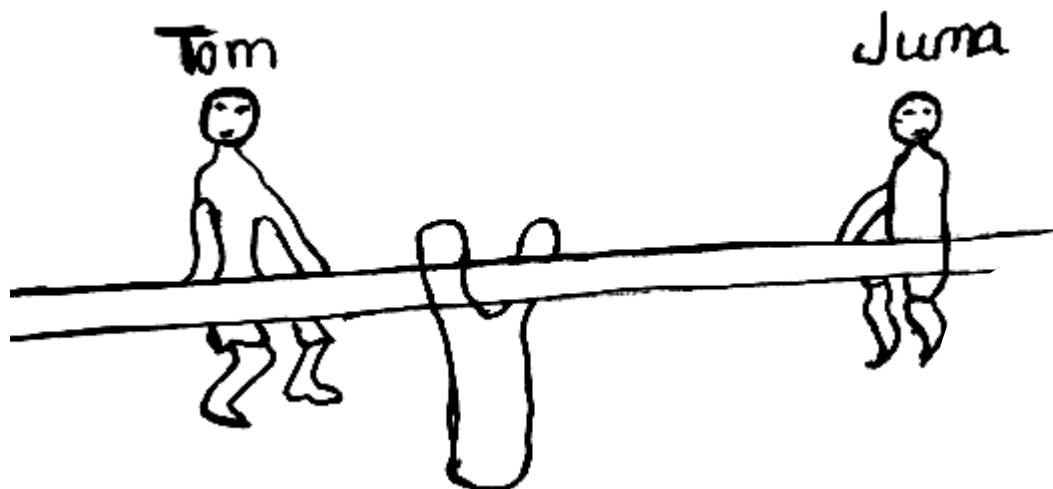
16. Suggest one way of controlling burns and scalds in a kitchen.

17. Give the meaning of refraction of light.

-
18. State one importance of proper chewing of food before swallowing.
-
19. Cite out one way of increasing the volume of blood in the body.
-
20. Besides being vertebrates, how else are birds similar to mammals?
-
21. List any one solute used in the preparation of ORS.
-
22. Why isn't a toadstool able to make its own food?
-
23. Suggest any one way of controlling mosquitoes at the larva stage.
-
24. How are splints useful to a casualty?
-
25. Outline one way of controlling constipation among children.
-
26. In one sentence, give the meaning of an apiary.
-
27. How do crops on a mixed farm benefit from livestock?
-
28. In the space below, draw a compound trifoliate leaf.
-
29. Why should babies be breastfed for the first six months of their life?
-
30. Give one difference between a spider and a cockroach.
-
31. Name any one incandescent object.
-
32. State one way how machines simplify work.
-

33. Why can't a pen write on a paper smeared with oil?

Study the diagram below and answer questions 34 and 35.



34. Who of the two boys is heavier?

35. What should Juma do to lift Tom up?

36. To which body system does the skin belong?

37. State one way of caring for the human ear.

38. Why is it dangerous to break blisters casualties with second degree burns?

39. Cite one disease of the circulatory system.

40. Name one example of a wedge in machines.

SECTION B (60 MARKS)

41. a) In one sentence give the meaning of weather.

b) State any two weather conditions.

i) _____

ii) _____

c) Which instrument is used to measure wind speed?

42. a) Give the meaning of the term food security.

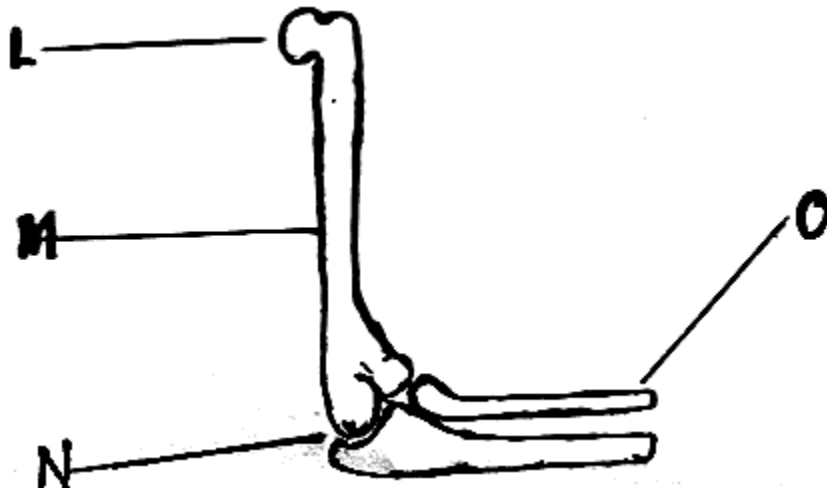
b) State any two ways of improving food security of a community.

i) _____

ii) _____

c) State one danger of food insecurity in a community.

43. Below is part of the human skeleton, use it to answer the following questions



a) Name the bones M and O

i) M _____

ii) O _____

b) What type of bone is marked with letter M?

c) How is joint N different from the joint at L?

44. a) State any two ways how vectors spread diseases.

i) _____

ii) _____

b) Cite out ant two diseases which are not spread by vectors.

i) _____

ii) _____

45. a) State the main reason why farmers keep Friesian cattle.

b) Identify any other breed of cattle kept for the reason given in "a" above.

c) How are the following tools useful on a cattle farm?

i) strip cup

ii) lactometer

46. a) State any one activity at home where filtration is carried out.

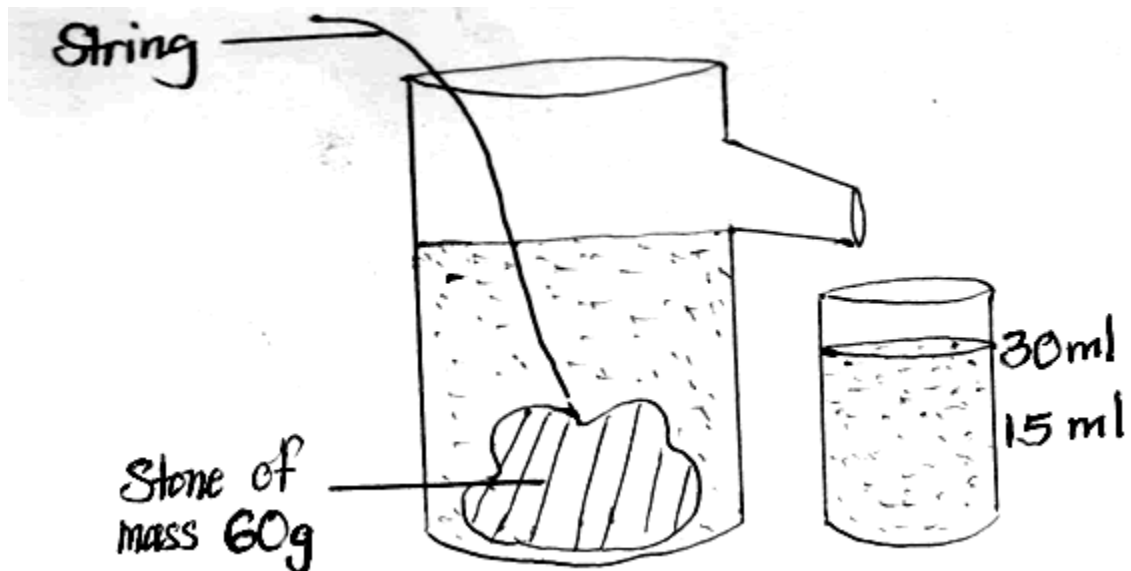
b) Why is distilled water not good for drinking?

c) Give two activities that can be done to make dirty water safe for drinking.

i) _____

ii) _____

47. Study the diagram below of finding volume



d) When is the above method used to measure volume?

e) State the role of the string in the above process.

f) Calculate the density of the stone

(2marks)

48. a) State the role of the following parts of the female reproductive system.

i) Ovary

ii) Cervix

d) Name any disease of the reproductive system which leads to insanity

e) State any one way of caring for the reproductive system.

49. a) What is meant by the term PHC?

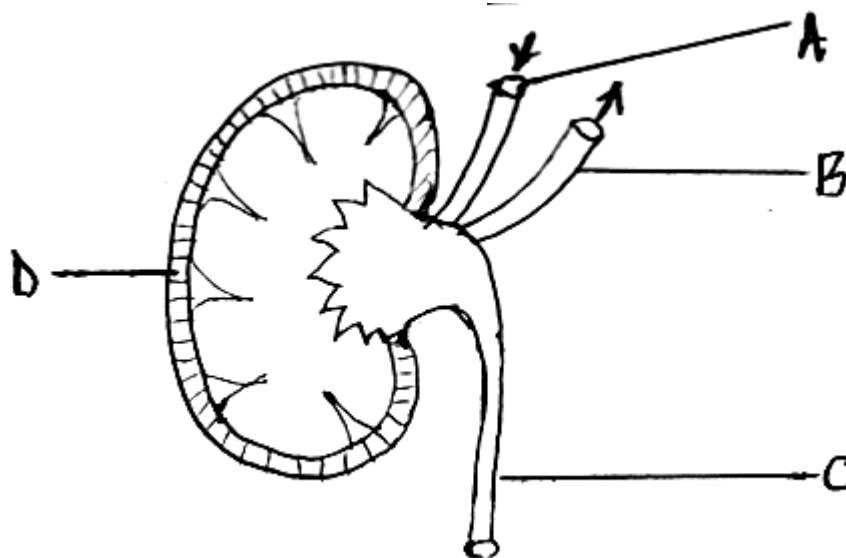
b) Identify any two elements of PHC respected at school.

i)

ii)

c) Outline any one principle of PHC.

50. Study the diagram of the kidney below



a) Name parts marked C and D

i) C _____

ii) D _____

b) Give one difference between blood carried in vessels marked A and B

c) List any one disease of the kidney.

51. a) In one sentence, give the meaning of drug prescription.

b) Which component of a drug prescription protects patients from taking wrong drugs?

c) How should a mother prevent drug poisoning in a home?

d) What is drug misuse?

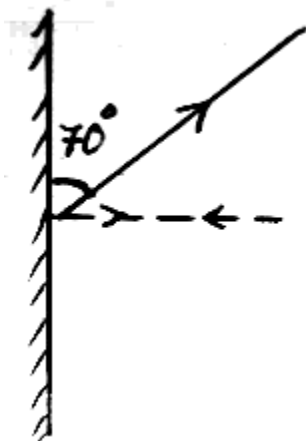
52. a) State any one economic importance of sound energy.

b) How does a guitar produce sound?

c) Give any one method of storing sound.

d) State one importance of an ear to a deaf person.

53. **Study the type of reflection below**



a) Complete the diagram by drawing the missing ray.

b) Name the light ray you have drawn

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

d) Find the size of the angle of incidence

54. a) What is oral health?

c) Name any two tools that can be used to promote oral health.

i) _____

ii) _____

c) Why is opening bottles using one's teeth a bad practice?

55. Match the following forms of electricity with their sources

List A	List B
Thermal electricity	The sun
Hydro electricity	Fossil fuels
Geothermal electricity	First flowing water
Solar electricity	Steam from hot rocks

i) Thermal electricity

ii) Hydro electricity

iii) Geothermal electricity

iv) Solar electricity

PAPER NINETEEN

SECTION A

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

2. Name the sensory organ that helps a person to detect changes in temperature.

3. In which way does the cutting of trees (deforestation) cause soil erosion?

-
-
4. Give one reason as to why pests and diseases are referred to as Blocks in food path.

 5. State any one way of proper disposal of rubbish in home.

 6. How is the propagation of sweet potatoes different from that of irish potatoes?

 7. How does the study of weather help a farmer?

 8. Apart from tasting, give any other role of the tongue during digestion.

 9. Which component of soil is used by plants to make their own food?

Use the diagram of a human tooth below and answer the questions that follow.



10. How useful is the type of tooth above?

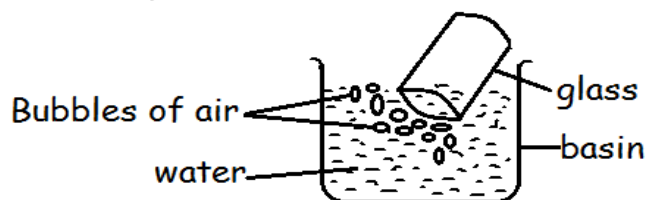
11. Identify any one way in which trees are able to reduce air pollution in the environment.

12. Why do most plants in desert areas have thorns?

13. Name any one by product of respiration process.

14. Which structures enable the trachea to remain open all the time?

15. ***Study the diagram below and answer the questions that follow.***

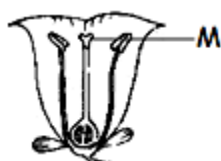


What does the experiment above prove?

16. Why is the re-cycling an important process in the conservation of resource?
-
17. How is sun important in the process of rain cycle?
-
18. State the compass direction in which a freely suspended magnet will rest.
-
19. How does the human body cool itself in a hot day?
-
20. What health danger comes as a result of someone not completing his medical dose? _____
-
21. Name the type of mosquito that spread elephantiasis to humans.
-
22. Why are ventilators put at a higher level above windows and doors in a house? _____
-
23. State one reason why a crop farmer should include beans in his crop rotation? _____
-
24. Give one major reason as to why one should wash his hands with soap after visiting a latrine. _____
-
25. What do arachnids use for breathing?
-
26. How does leaching reduce soil fertility?
-
27. Name the type of blood cell which is affected by malaria parasites in the body.
-
28. Give one use of water absorbed by seeds during germination.
-

-
-
29. Why is it important for married couple to be treated together if they have got syphilis? _____
-
30. How useful is frictional force to a P.7 candidate during his examinations? _____
-
31. Name any one type of cattle kept by farmers in Uganda. _____
-
32. Which disease is characterized by a sunken soft spot on a baby's head (fontanelle)? _____
-
33. Name the final digested food products from eating proteins to the body. _____
-
34. Give one reason as to why water is not advisable to put out petrol fire. _____
-

Study the diagram of a flower and use it to answer the question about it.



35. What is the use of the part marked "M" to a flower? _____
-
36. Give one reason as to why filtrated water is not necessarily safe for drinking? _____
-
37. How useful is a stretcher when giving first aid? _____
-
38. State any one characteristic of fruits and seeds dispersed by animals. _____
-
39. Give any one reason as to why sugarcane is not considered as a stem tuber yet it stores food in its stem. _____
-

40. Name any one diarrheal disease.

SECTION B

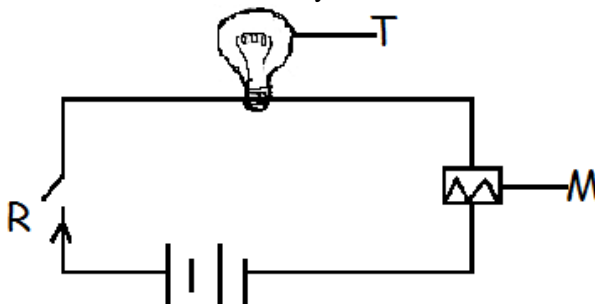
41. (a) Give any one way in which Primary Health Care (PHC) is important to the community.

(b) State the element of PHC which is promoted by each of the following activities.

(i) Cleaning water sources:

(ii) Eating a balanced diet meal:

42. *Use the diagram below of a simple circuit to answer questions that follow.*



(a) How is the function of the part marked M similar to that of R?

(b) Name the form of energy produced at part marked T when the circuit is completed.

(c) Calculate the voltage used in the circuit above. (2mks)

43. (a) Give the difference between reflection and refraction.

(b) Identify any two characteristics of image formed by plane mirrors.

i) _____

ii) _____

(c) How is reflection of light useful in our daily life?

44. (a) What is respiration?

(b) How are air sacs (Alveoli) adapted for gaseous exchange?

(c) Give any one respiration disease caused by bacteria.

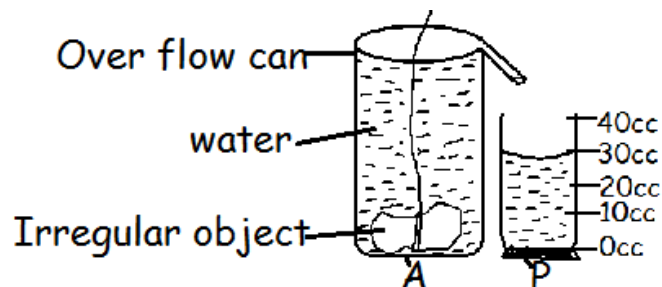
(d) State any one way how one can maintain his respiratory system in good working condition. _____

45. (a) What is immunity?

(b) Study and complete the immunization table below.

Disease	Vaccine	Immunization site
Polio	Polio vaccine	i)
Tuberculosis	BCG	ii)
Diphtheria	iii)	Left upper thigh

46. An irregular object was lowered into an overflow can A containing water. The water it displaced was collected in container B as shown.



(a) What is the volume of the irregular object above?

(b) Calculate the density of the irregular object if its mass is 90g. (2mks)

(c) Name container marked P.

47. (a) Which type of change takes place when an iron rusts?

(b) Give two conditions necessary for rusting to take place on an iron tool.

i) _____

ii) _____

(c) State any one effect of rusting on iron tools.

48. (a) What is environmental degradation?

(b) Identify any two natural causes of environmental degradation.

i) _____

ii) _____

(c) Give any one human activity that cause environmental degradation.

49. *In the diagram below W, X and Y show the stages of germination of a seed. Study and use it to answer the questions that follow.*



(a) Name the part marked Q.

(b) How is part marked Q useful to the seedling at the stage marked X?

(c) Why is the part marked Q useless at stage Y?

(d) Which type of germination is shown by the above seeds?

50. (a) Differentiate between poultry and poultry keeping.

(b) Name any two vices in poultry which can be controlled by debeaking.

i) _____

ii) _____

(c) Give any one disease that attacks poultry.

51. (a) What is the standard unit for measuring force?

(b) A man weighs 60kg. He sits 1.5metres from the fulcrum (pivot) of a see-saw. How far from the fulcrum will a boy whose weight is 30kg, sit in order to balance up with the man in the see-saw. (3mks)

52. (a) What is the importance of a school garden to school children?

(b) Identify two factors to consider when choosing an area for a school garden.

i) _____

ii) _____

(c) Name any one framing practice that can be done in a school garden.

53. (a) What is swarming? _____

(b) Give two reasons as to why people keep bees.

i) _____

ii) _____

(c) State any one way how bees can be dangerous to human beings.

54. (a) What is the difference between transparent and translucent objects?

(b) Give any one example of opaque object.

(c) Name the type of lens used to correct long sightedness.

(d) Which part of the eye has the same function as film in the lens camera?

55. (a) Give the difference between a predator and a scavenger.

(b) In which way are scavengers useful in the environment?

(c) Name any two examples of scavenger birds.

i) _____

ii) _____

PAPER TWENTY

SECTION A

1. Besides the tooth brushes and tooth paste, name one item used to clean human teeth.

2. Why is carbondioxide used in fire extinguishers?

3. State any one example of an animal vector.

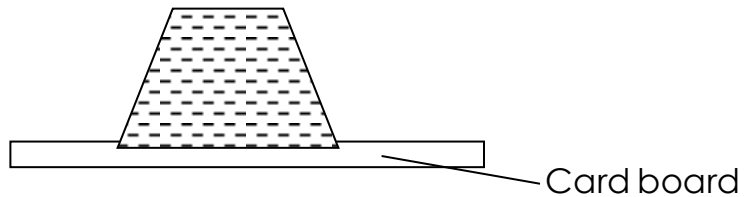
4. Suggest any one importance of soil to a rat.

5. How are Chlamydia germs dangerous to people?

6. Give one reason why food is cooked.

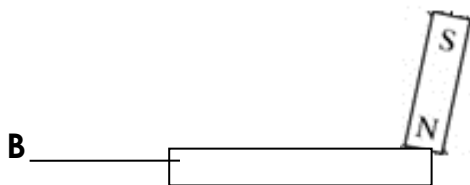
-
7. In which one way do crops benefit from trees in agro forestry?
-
8. Why do people urinate frequently on cold days than on hot days?
-

The diagram below is of property of air. Use it to answer questions 9 and 10.



9. Why didn't the cardboard paper fall immediately?
-
10. Suggest any one application of the above property of air.
-
11. What causes the noise produced by a class door when opening and closing it?
-
12. Fish, reptiles and birds have backbones and lay eggs. Name any other characteristic that is common to all of them.
-
13. What happens to water when it cools below 0°C?
-
14. Give any one sign which shows that a cow is suffering from mastitis.
-
15. Why do house flies lay eggs in decaying matter like faeces?
-
16. Mention any function of the kidney apart from blood filtration.
-
17. Identify one blood vessel which carries blood away from the heart.
-
18. How does heat promote personal hygiene?
-

The diagram below shows a magnet. Use it to answer questions 19 and 20.



19. Name the pole marked with letter B.
-
20. Write down the property of magnets in the above diagram.
-
21. Apart from leaving cooked food uncovered, how else can cooked food be contaminated?
-

22. What is a strain?

23. State the role of yeast in the production of alcohol.

24. Give any one use of essential drugs to humans.

25. Kazooba touched a kettle full of water and found it to be hot. Which body sense enabled him to tell that the kettle was hot?

26. Outline the deficient vitamin in the diet of a girl who can't see clearly when it is getting dark.

27. How does painting prevent rusting of painted iron materials?

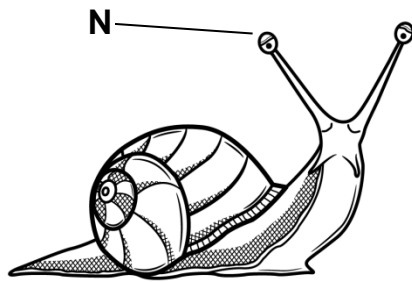
28. Give any one danger of a dirty body to an individual.

29. Suggest any one way of controlling weeds in a garden.

30. Emerson crushed garlic and Edinson in the next room could smell the garlic. What process enabled the smell of garlic to reach Edinson in the next room?

31. Why are we encouraged to drink boiled water?

The diagram below shows an invertebrate



32. To which group of invertebrates does this animal belong?

33. What is the function of part N?

34. Write any one example of a food taboo in Mukono.

35. Name the disease that deforms the red blood cells.

36. Give any one use of ventilators on a house.

37. State the role of a drone in a bee hive.

38. Identify the best way of controlling ectoparasites in cattle.

39. Where in the digestive system does absorption of alcohol take place?

40. List any one example of a saprophyte.

SECTION B

41. a) How is each of the following crops harvested?

i) cassava _____

ii) tomatoes _____

b) Suggest any two reasons why farmers weed their gardens.

i) _____

ii) _____

42. a) Define each of the following terms

i) Drug abuse _____

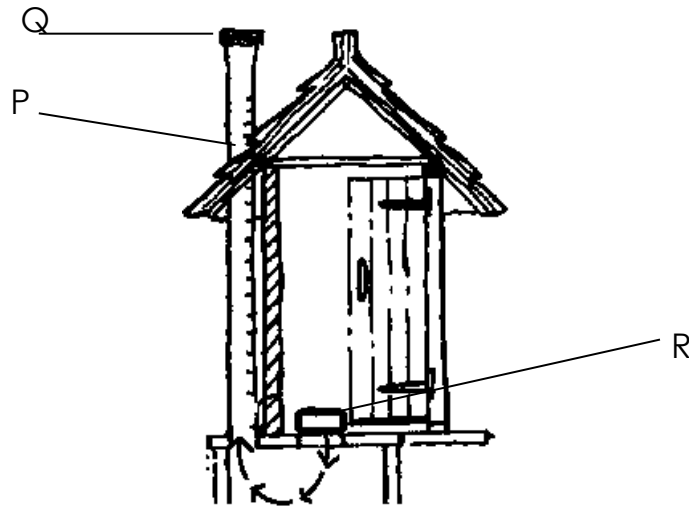
ii) Drug prescription _____

b) State two reasons why drugs should be prescribed by health workers before use.

i) _____

ii) _____

43. The diagram below is of a pit latrine. Study it and answer the following questions



a) Name part marked Q. _____

b) State the function of part marked P. _____

c) The arrow marked R shows movement of air inside the pit of the latrine. By what process does air move into and out of the pit of the latrine above?

d) Why is it not advisable to use disinfectants very often while cleaning the pit latrine?

44. a) The skin is an excretory body organ in humans. Name one excretory product the skin releases.

b) Beside excretion, state any other two ways in which the skin is important to the human body.

c) Give any one viral infection that affects the human skin.

45. a) Give any two ways through which diseases are spread in cattle.

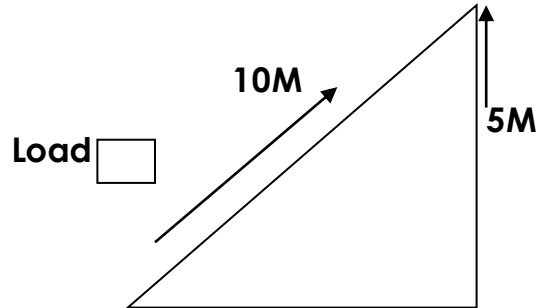
i) _____

ii) _____

b) Which cattle disease shows the following signs and symptoms. High temperature, lameness, blisters on tongue and hooves?

c) Suggest one way of controlling the spread of the above named disease.

46. The diagram below is of a machine. Use it to answer the following questions



a) Name the machine above.

b) What distance does the load and effort move through

i) load

ii) Effort

c) How can you use less than 50kgF to pull the above load?

47.a) What is first aid?

b) Why would it be dangerous for an eleven year old boy to remove an adult who is near drowning in water?

c) Suggest one thing the boy in "b" should do to save the adult from drowning?

d) Give one reason why we give first aid.

48.a) Name one practice which increase the spread of bilharzia.

b) Which vector is important in the spread of bilharzias?

c) Give two ways of preventing the spread of bilharzia.

i) _____

ii) _____

49. Match the items in List A to those in list B correctly as used at a weather station

A	B
wind vane	amount of rain
barometer	speed of wind
rain gauge	amount of air pressure
anemometer	direction of wind

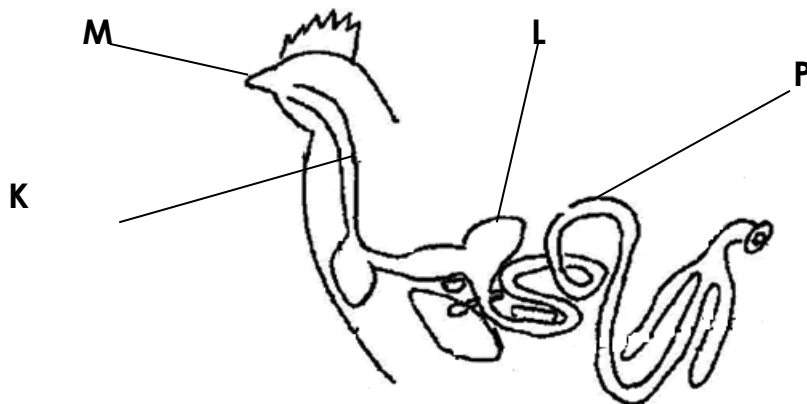
a) wind vane _____

b) barometer _____

c) rain gauge _____

d) anemometer _____

50. **The diagram below shows an alimentary canal of a bird. use it to answer the following questions.**



a) What does a bird use part K for?

b) State the function of L.

c) Name part marked P.

d) Give the use of part M to a bird.

51. a) Mention any two examples of arachnids

i) _____

ii) _____

Give any two differences between arachnids and insects.

i) _____

ii) _____

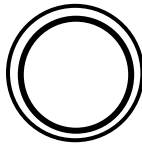
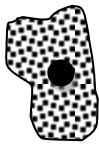
52. a) Besides hearing, mention any other function of the human ear.

b) Suggest the importance of wax found in the ear canal.

c) Why is it dangerous to clean our ears using sharp objects?

d) Identify the collective name given to the small bones of the human ear.

53. **Below are components of blood. Use them to answer the following questions**



a) State the functional difference between A and B.

b) Where are components B manufactured in the body?

c) Name the component A and B.

A _____

B _____

54. a) Give any one type of soil erosion.

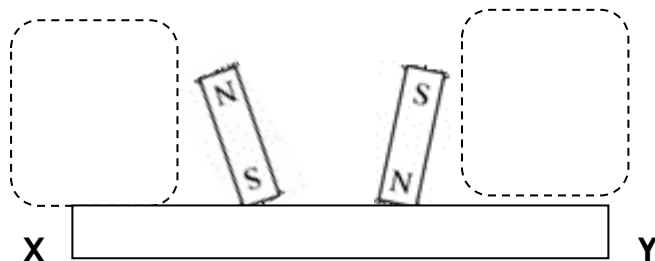
b) How does bush burning lead to soil erosion?

c) State any two agents of soil erosion

i) _____

ii) _____

55. **Below is an illustration of how to make a magnet. Use it to answer the given questions.**



- a) Which method of making magnets is illustrated in the above diagram?

- b) What name is given to the magnet formed using the above method?

- c) Mention one device that uses the above named magnet.

- d) Name the pole marked X.

PAPER TWENTY ONE

SECTION A (40 MARKS)

1. Name any one natural source of heat energy.

2. Identify the enzyme responsible for digestion of food in the mouth.

3. How is friction an important force to a crop farmer?

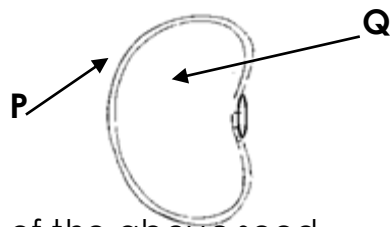
4. In one sentence, give the meaning of truancy

5. Suggest the importance of blubber to cetaceans.

6. How is black jack seed propagated?

7. Give one way a crop farmer can make use of radiation process.

Use the diagram below to answer questions 8 and 9.



8. Name part P of the above seed.

9. State the role of part Q to a seed during germination.

10. Where in a rat does fertilization take place?

11. Identify any one way plants in deserts regulate the rate of transpiration.

12. Which part of an egg develops into a chick during incubation?

13. Why are burns and scalds put under cold running water?

14. How does intra-uterine device promote child spacing?

15. Which disease is spread by rat fleas?

16. How is black jack seed adapted to its mode of dispersal?

17. How useful are brightly coloured petals to a flower of a plant?

18. Give the importance of bile juice in the process of digestion.

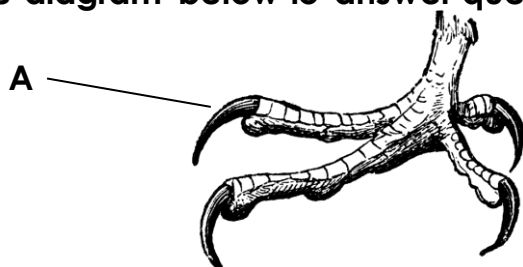
19. How is reflection of light important to drivers on the road?

20. Why do crawling babies commonly suffer from diarrhea?

21. Besides brushing teeth, suggest one way of preventing tooth decay in children.

22. Identify any condition that favours rusting of iron materials.

Use the diagram below to answer questions 23 and 24



23. Mention one group of birds with such a foot.

24. Suggest the importance of part A to such birds.

25. Give any one type of cattle kept in Uganda.

26. State any one way of protecting water sources from contamination.

27. How do solids allow heat transfer by conduction?

28. Give one way how crop growing can depend on cattle keeping.

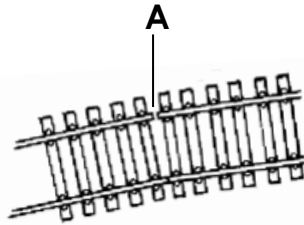
29. Suggest any one way mammals can care for their young one.

30. Identify one danger that may result from poor functioning of the kidneys.

31. How does a VIP latrine contribute towards the control of communicable diseases?

32. Name one enzyme produced by the pancreas used in digestion of fats.
33. Name any one fungal skin infection.
34. Besides protecting the heart, how else is the human skeleton important to the circulatory system?
35. Identify one animal fibre used in textile industries.

Study the diagram below and answer questions 36 and 37.



36. Why are gaps marked A left between rails during construction of railway lines?
37. What would happen if gaps marked A were not left between rails?
38. Suggest any one method of food preparation.
39. How does a toadstool feed?
40. What role do teeth play during digestion?

SECTION B (60 MARKS)

41. Given the list of animals: frog, goat, hen, crocodile and tilapia
- a) What similarity is in all these animals?

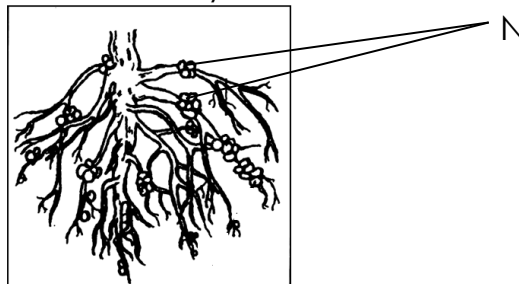
b) which two animals are homoeothermic?

i) _____

ii) _____

c) How is a crocodile different from a tilapia?

42. The diagram below is of a root system. use it to answer the following questions



a) Name structure N. _____

b) Which group of plants has the above root system?

c) What is the importance of organisms found in structures marked N?

d) State any one crop with such roots.

43. a) Give the danger of taking expired drugs.

b) Mention any two examples of essential drugs.

i) _____

ii) _____

c) Suggest one danger of passive smoking to people.

44. a) Distinguish between renewable and non-renewable resources.

b) Identify one example of non-renewable resource.

c) How can school going children prevent environmental degradation?

i) _____

ii) _____

45. An incident ray of light struck a plane mirror at an angle of 27° .

a) Find the angle of reflection (2marks)

b) In the space below, draw an illustration to show that light travels in a straight line.

c) Apart from sight, give one other use of eyes to humans.

46. Match the following forms of electricity with their sources.

Types of electricity

- Thermal electricity
- Hydro electricity
- Geothermal electricity
- Atomic electricity

Sources

- Fast flowing water
- Uranium
- Fossil fuels
- Steam from hot rocks
- The sun

i) Thermal electricity _____

ii) Hydro electricity _____

iii) Geothermal electricity _____

iv) Atomic electricity_____

47. a) Define the term immunization.

b) Identify one air borne immunizable disease.

c) Why is measles vaccine administered at 9 months?

d) State any one sign of tetanus in infants.

48. **Below are methods of harvesting wood, use them to answer the following questions**



a) Name the methods A and B

i)A_____

ii)B_____

b) Which of the above methods is used to harvest wood for timber?

c) How does afforestation control soil erosion?

49. a) Why do farmers dock their sheep?

b) Identify the best wool producer among sheep.

c) Suggest any one product got from wool.

d) How is the cause of blue tongue different from that of anthrax in sheep?

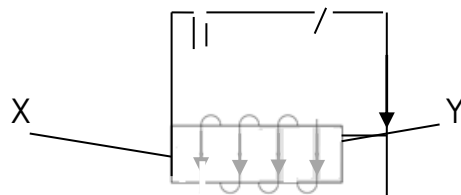
50. Opio often runs on the school compound.

a) Identify one accident he is likely to encounter.

b) Name any one danger of accidents to school going children.

c)Suggest a suitable first aid for the accident in (a) above . (2marks)

51. Below is a method of making magnets. Use it to answer the following questions



a) Name the above method of making magnets.

b) Which magnetic poles will X and Y become?

i) X _____

ii) Y _____

c) Identify one method of demagnetizing magnets at home.

52. a) What type of metamorphosis has three stages of development?

b) Name the second stage in the above type of metamorphosis.

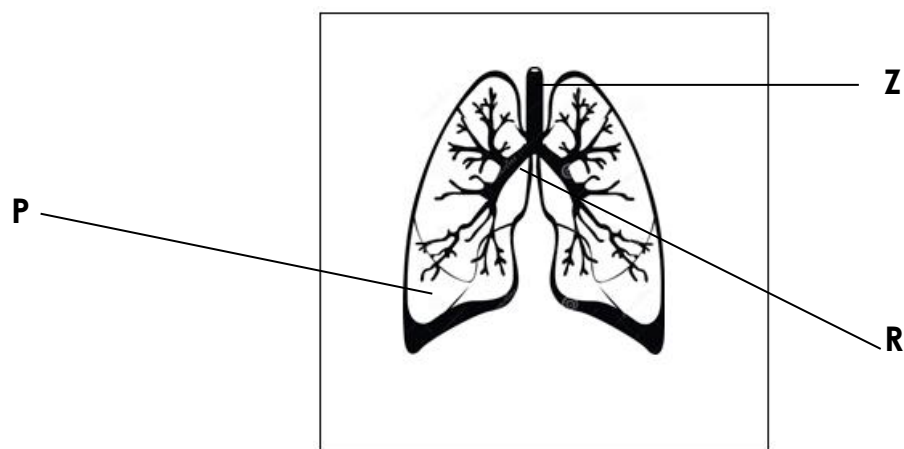
c) Give any two examples of insects which undergo the above type of metamorphosis.

i) _____

ii) _____

53. In four sentences, explain how you can prepare ORS locally.

54. **Study the diagram of the respiratory tract below and answer the following questions**



a) Name part R. _____

b) Why is part Z made of cartilage rings?

c) Which process takes place in part P?

d) Suggest one bad health practice that affects the structure above.

55. a) State the end products of the following after digestion.

i) Carbohydrates _____

ii) Proteins _____

b) Why are vitamins and mineral salts absorbed without being digested?

c) State any one disorder of the digestive system.

PAPER TWENTY TWO

SECTION A

1. What is the use of small hair found in the nose?

2. Which immunisable disease causes lameness in children?

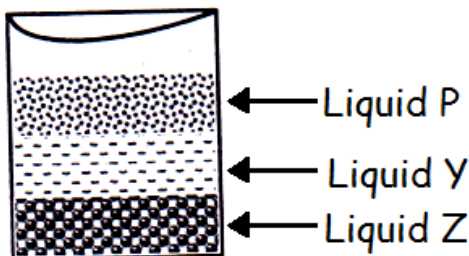
3. Why is a cockroach classified as an invertebrate?

4. What advice would you give to your fellow P.7 pupils about protection of the environment against polythene bags?

5. Where in the alimentary canal does digestion of food end?

6. Gilamia touched a kettle full of water and found it to be hot. Which body sense enabled her to tell that the kettle was hot?

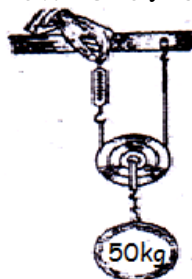
The diagram below shows three liquids with different densities. Use it to answer question 7.



7. Which of the three liquids has the lowest density?

8. What is the role of chlorophyll during the process of photosynthesis?
-
9. Kikojjo spread mosquitoes and Oniambe in the next room could smell the insecticides. What process enabled the smell of insecticides to reach Oniambe in the next room?
-
10. Mention one example of a non-luminous object in the environment.
-
11. What practice is carried out by constructors to leave a room for expansion when building railway lines?
-
12. Apart from warmth, state any one other condition necessary for germination.
-
13. In the diagram below, draw the image by using the characteristics of images formed by plane mirrors.
- The diagram shows a horizontal line representing a plane mirror. To the left of the mirror, there is a right-angled triangle labeled 'Object'. To the right of the mirror, there is a vertical line labeled 'Image'. The mirror is represented by a horizontal line with several tick marks. The 'Object' is a right-angled triangle with its base on the mirror line. The 'Image' is a vertical line of the same height as the object, also with its base on the mirror line.
14. How are seeds with hooks like black jack dispersed?
-
15. Nankya cannot see clearly when it is getting dark. What vitamin is deficient in her diet?
-
16. What is the difference between a sprain and a strain?
-

The diagram below is of a pulley. Study it and answer questions 17 and 18.



17. What type of pulley is shown in the diagram above?

18. Calculate the effort needed to raise the load shown in the diagram above.

19. Suggest one way a P.7 candidate can promote personal hygiene.

20. Convert 149°F to $^{\circ}\text{C}$.

21. How can a farmer improve on his local breeds of rabbits?

22. Name the method that is used to measure the volume of irregular objects.

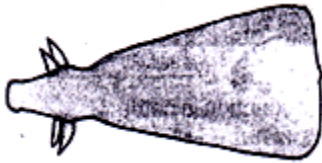
23. Apart from BCG vaccine, mention the other vaccine administered to babies at birth.

24. How are viviparous animals different from oviparous animals?

25. Name the excretory organ that does suffer from hepatitis disease.

26. Apart from faeces, mention any other material used in a bio-gas digester in production of bio gas.

27. How does the function of the ear drum differ from that of the Eustachian tube in the mammalian ear?



28. Which type of cattle has the body shape shown above?

29. Magnets can help in separation of mixtures. Why can't a magnet separate nails from steel fillings?

30. Name the disease caused by *Onchocerca volvulus*.

31. Write HIV in full. _____

32. Name the force which enables rain drops to fall from condensed clouds.

33. What advice would you give Yokosan who wants to determine the amount of rainfall received in his home area?

34. Name the mineral from which fungsten is made.

35. Define the term sex deviation.

36. Write down one principal of reflection of light.

37. Why are some objects like aeroplanes streamlined?

38. How are periscopes useful to submariners when in water?

39. Mention one example of a plant fibre.

40. Name one method of storing sound.

SECTION B

41. (a) What is puberty?

(b) Give any two body changes common in adolescents during puberty.

i) _____

ii) _____

(c) Mention one emotional change common in adolescents.

42. (a) How is malaria spread?

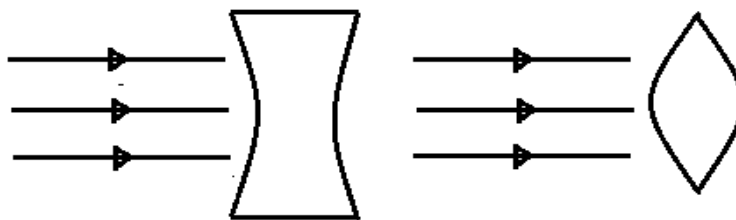
(b) How does a fish help in controlling the above disease?

(c) Give any two ways through which people can get communicable diseases.

i) _____

ii) _____

43. *The diagrams below show types of lenses.*



(a) Name the lenses.

i) _____

ii) _____

(b) Complete the diagrams above to show the light rays after passing through the lenses.

44. (a) What is breast feeding? _____

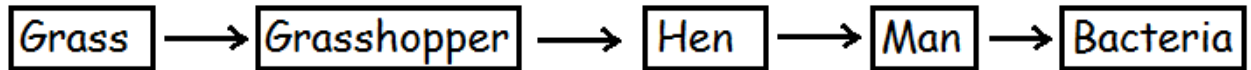
(b) Outline two advantages of breast feeding to a mother.

i) _____

ii) _____

(c) State the substance which is not available in breast milk.

45. The diagram below shows a feeding relationship among living things. Study it carefully and use it to answer questions which follow.



(a) What name is given to the relationship above?

(b) Which organism in the list above is referred to as;

(i) A primary consumer?

(ii) A decomposer?

(c) Apart from food, give one other way animals depend on each other.

46. Complete the table below by filling the blank spaces correctly.

Vector	Diseases
	Cholera
Water snail	
	Sleeping sickness
Black fly	

47. (a) What term is used to describe the small living organisms which destroy crops in the garden?
- _____

(b) Identify any two examples of root crop pests.

i) _____

ii) _____

(c) Suggest one way of controlling weeds in the garden.

48. What name is given to the following?

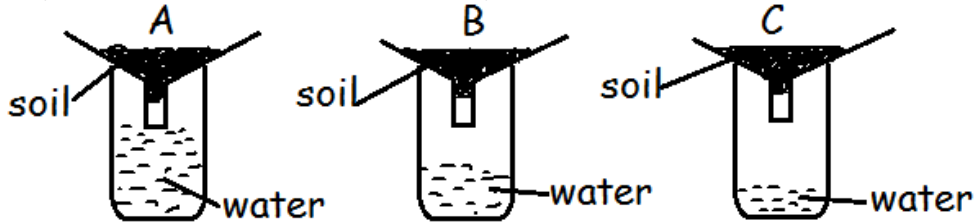
(a) The thick wall that separates the heart into the left and right side.

(b) The lower chambers of the heart.

(c) Blood vessels that take away blood from the heart.

(d) The blood vessel that carries digested food from the ileum to the liver.

49. *A group of primary five pupils carried out experiments as shown below. Study them and answer the questions that follow.*



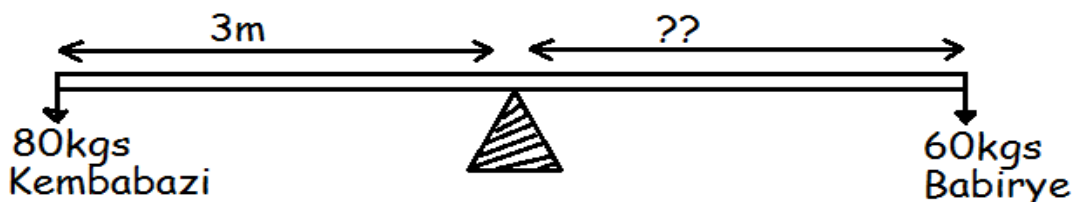
(a) Name the type of soil marked A.

(b) What was the experiment about?

(c) Which type of soil has the highest water retention?

(d) Mention any one way in which soil is formed.

50. Kembabazi weighs 80kgs and sits 3 meters from the fulcrum. How far from the pivot should her friend Babirye who weighs 60kgs sit in order to balance the sea-saw as shown below?



51. (a) What are essential drugs? _____

(b) State any two drugs commonly abused in Uganda.

i) _____

ii) _____

(c) What do we call the time when the drug is too old to be used by the patients? _____

52. Give two examples of the following.

(a) Chemical changes:

i) _____

ii) _____

(b) Biological change:

i) _____

ii) _____

53. The skin is an excretory body organ in humans.

(a) Name any one excretory product that the skin releases.

(b) Besides excretion, state any two other ways in which the skin is important in the human body.

i) _____

ii) _____

(c) Give one viral infections that affect the human skin.

54. (a) Mention any two enzymes that help in digestion of food.

i) _____

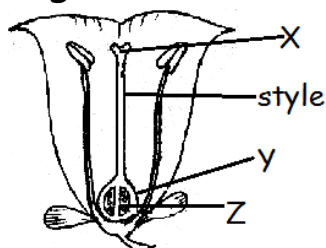
ii) _____

(b) Where are the following digestive juices produced from?

(i) Saliva: _____

(ii) Gastric juice: _____

55. The diagram below shows parts of the flower.



(a) Name part marked X.

(b) What will parts Y and Z develop into after fertilization?

i) Y: _____

ii) Z: _____

(c) What is the difference between a fruit and a seed?
