A NEW COURSE REVISION WORKBOOK

INTERGRATED SCIENCE AND HEALTH EDUCATION

FOR UPPER PRIMARY (P6 AND P7)

FIRST EDITION- 2019

COMPILED BY:

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PAPER ONE

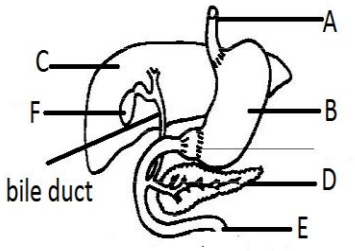
INTEGRATED SCIENCE DIAGRAM TEST

1. a) Define the term digestion

_____

_____

_____



b) Name parts marked with letters

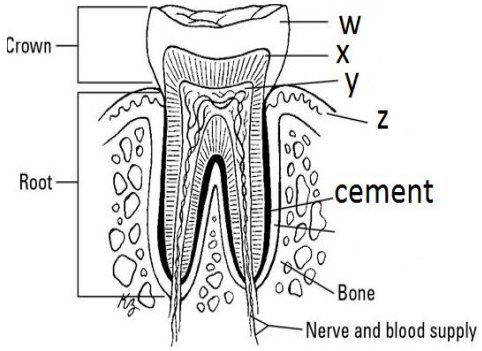
i) C _____

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) ii) Y _____

b) State the importance of parts marked

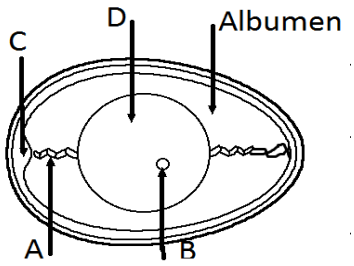
i) W_____

_____

ii) Z_____

_____

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



a) Name parts marked

i) A _____

ii) ii) B _____

b) Why is an egg shell porous?

_____

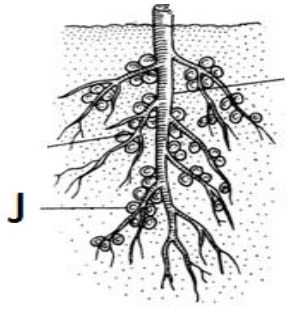
_____

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

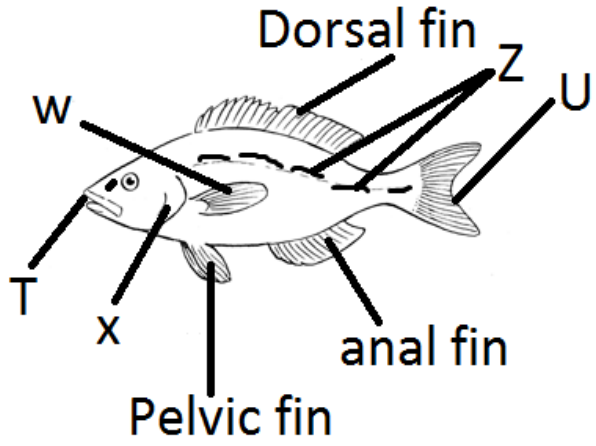
_____

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) ii) X _____

b) State the function of part marked Z

_____

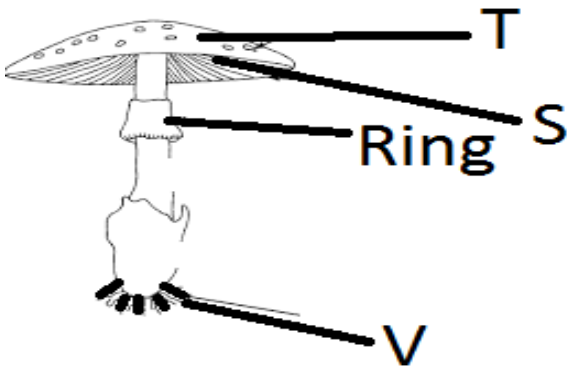
_____

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) ii) V _____

b) State the function of parts marked T

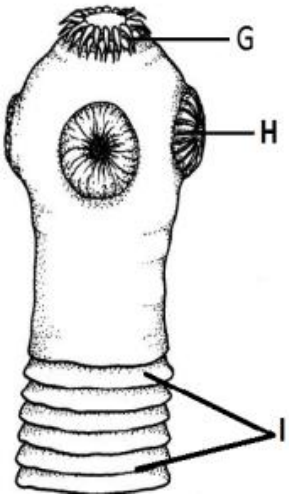
_____

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 _____

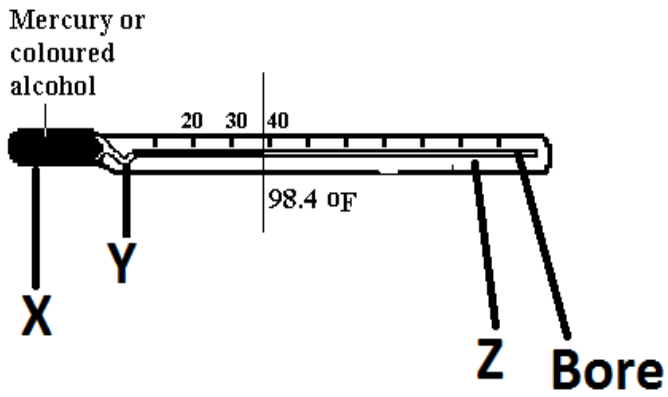
b) State the function of part marked H

_____

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

_____

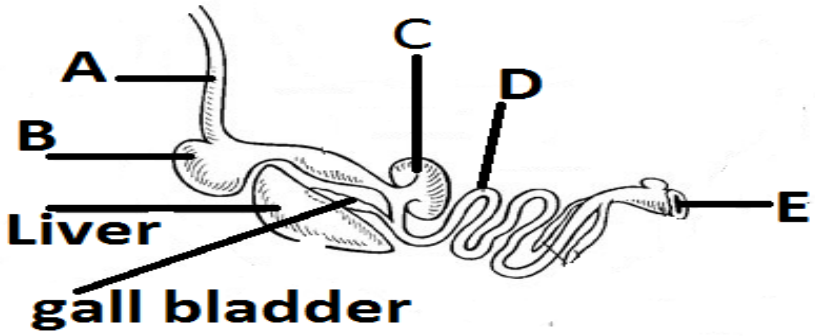
_____

_____

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

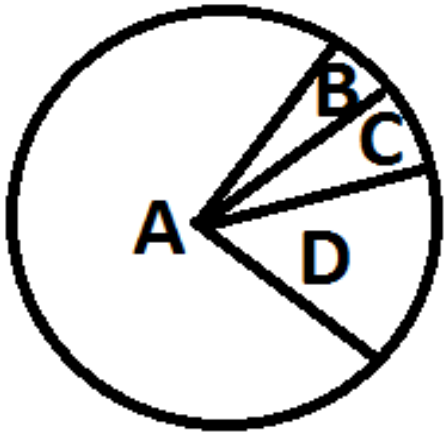
i) B _____ ii) C _____

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_____

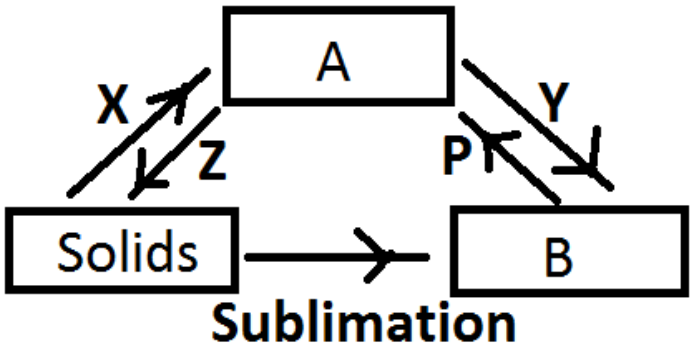
ii) C _____

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

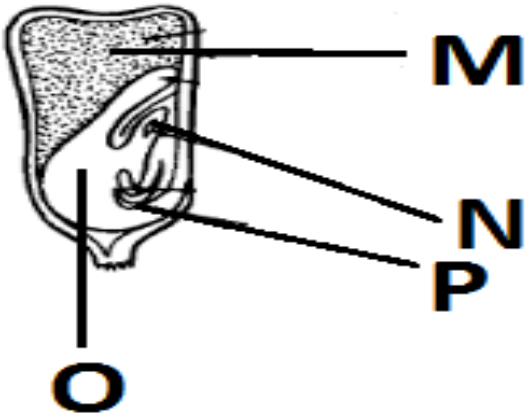
i) X _____ ii) Y _____

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

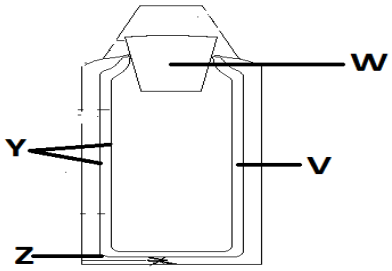
i) L _____ ii) O _____

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

_____

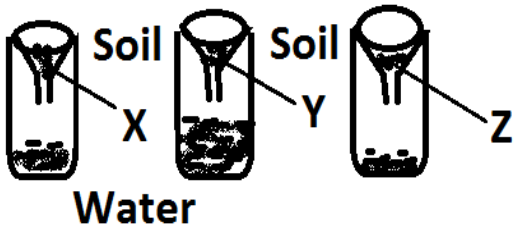
ii) Y _____

c) State the function of part marked Z.

_____

_____

14. Below is an experiment about soil.



a) What is the experiment about?

_____

_____

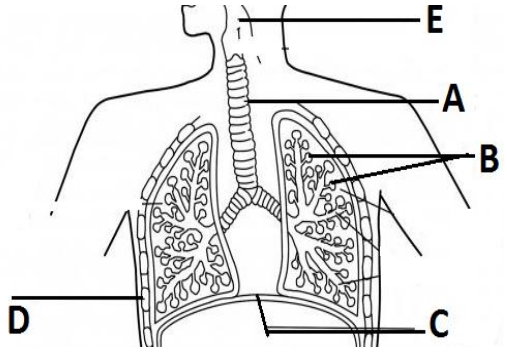
b) Name soil sample marked X and Y

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?

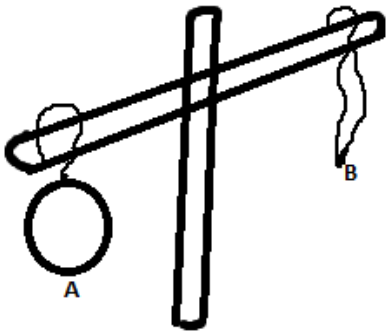
   _____

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?

_____

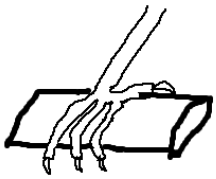
10. Name any one block in Food Path.

_____

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 40^0C to ^{0}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) _____

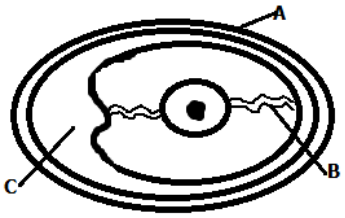
b) Give one reason why breast milk is regarded as the best food for babies.

_____

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?

_____

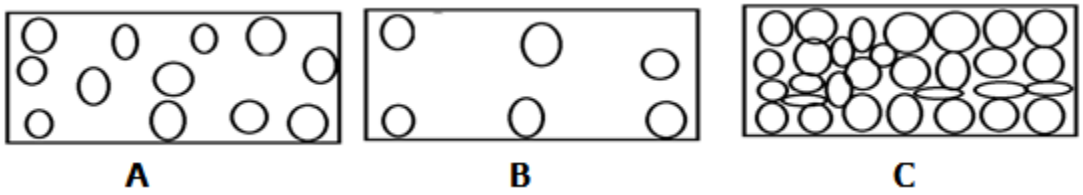
b) State **three** ways of preventing the spread of malaria in your home.

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	**Diseases**
Blackfly	Rabies
Housefly	Malaria
Infected dog	River blindness
Anopheles mosquito	Dysentery

_____

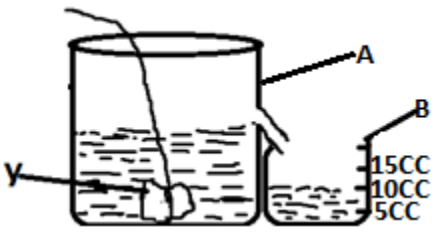
_____

_____

_____

_____

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 (4O 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?

_____

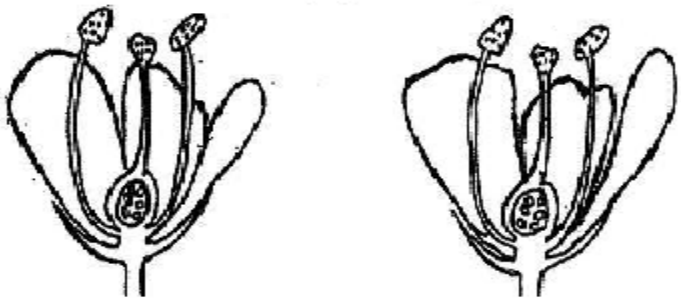
13. What scientific name is given to the larvae stage of a butterfly?

_____

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?

_____

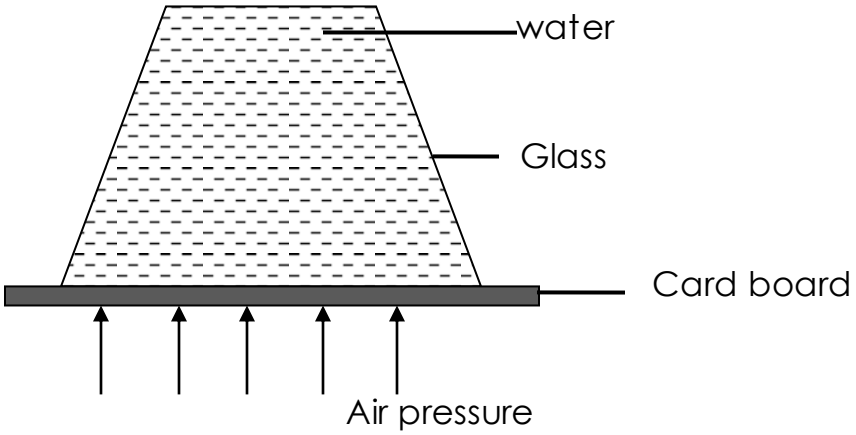
25. Of what importance are earth worms in soil formation?

_____

26. A part from breast feeding, name one natural method of child spaceing.

_____

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 $30^{0}C$ to ^{O}F.

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

_____

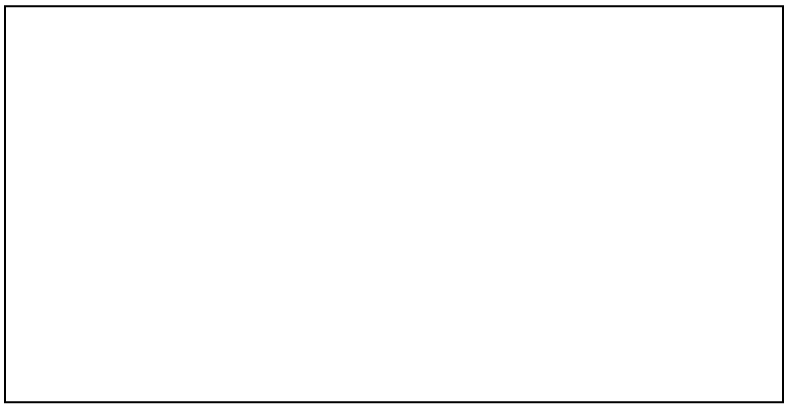
35. Which type of energy is possessed by a box placed on a table?

_____

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.

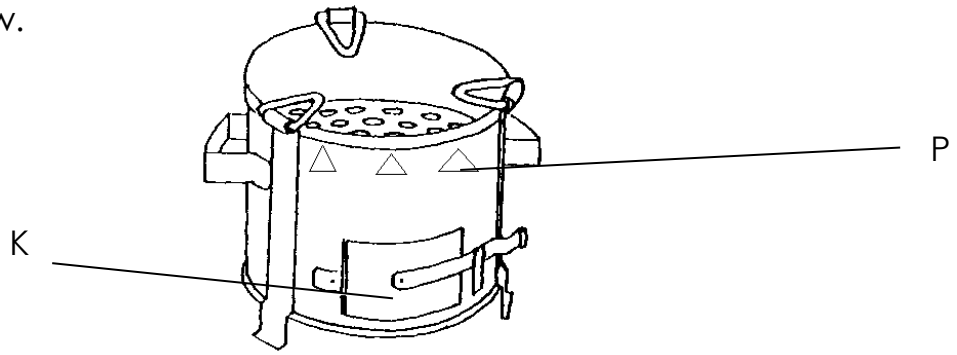
i)_____

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 <u>weaning</u>.

_____

_____

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 <u>sanitation</u>?

_____

_____

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?

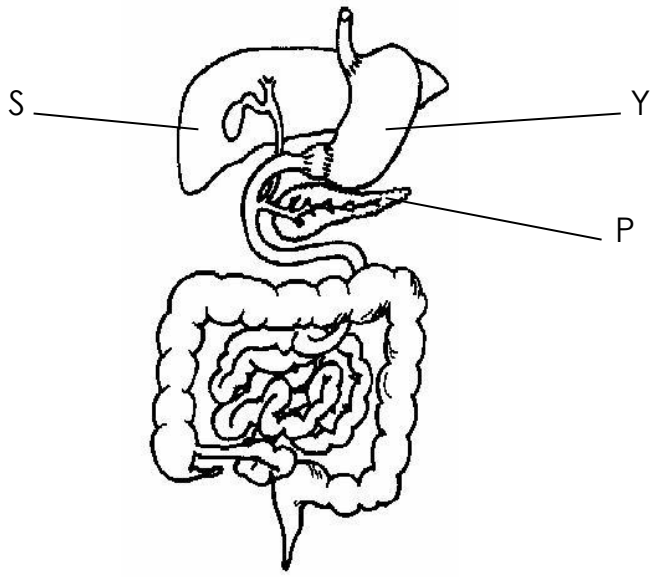
_____

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?

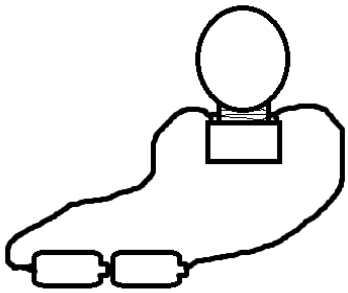
   _____

10. What are energy resources?

    _____

    _____

11. Show the flow if 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	B
Thermal energy	Wind
Nuclear energy	Sun
Wind power	Coal
Solar energy	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) _____

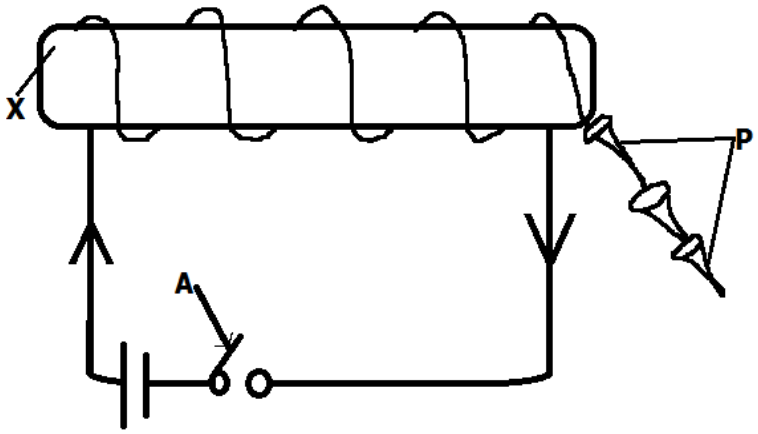
ii) _____

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) _____

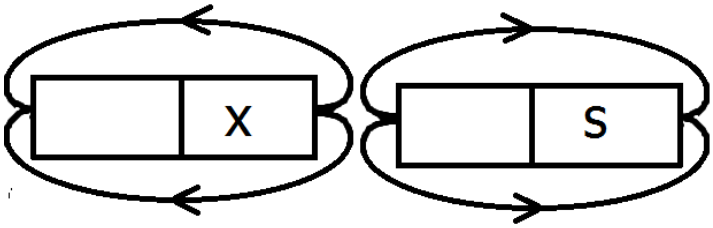
ii) _____

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.

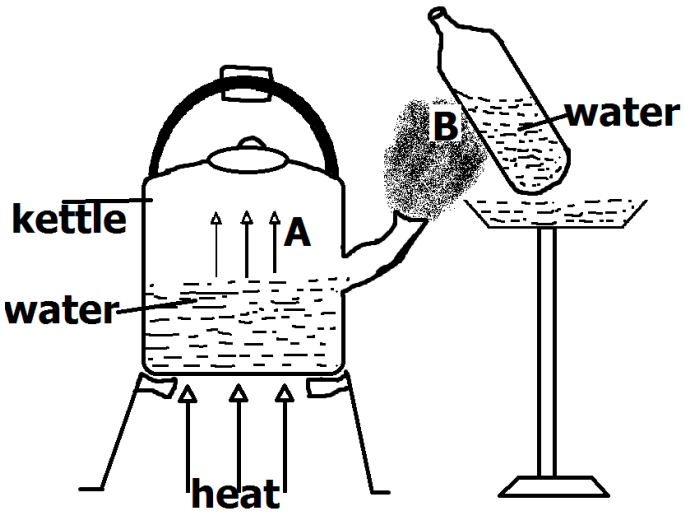
_____

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.

_____

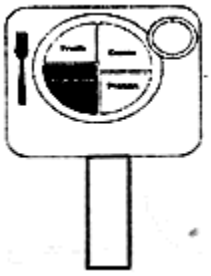
8. Apart from tree planting, identify any one income generating project at home.

_____

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?

_____

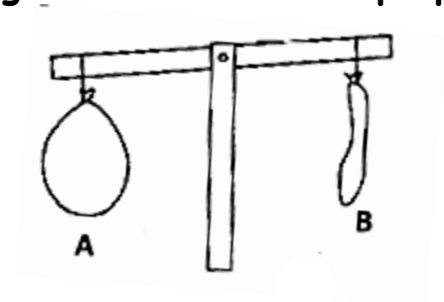
11. The water hyacinth is a weed that is dangerous on our lakes. State any one danger of this weed.

_____

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.

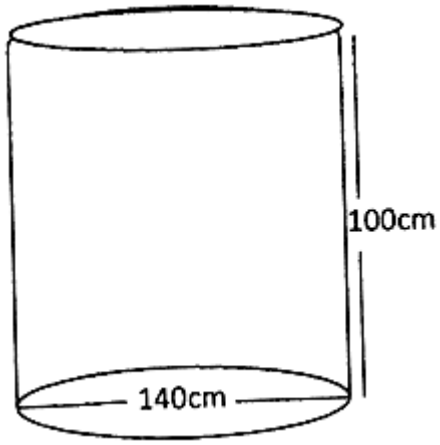
_____

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.

_____

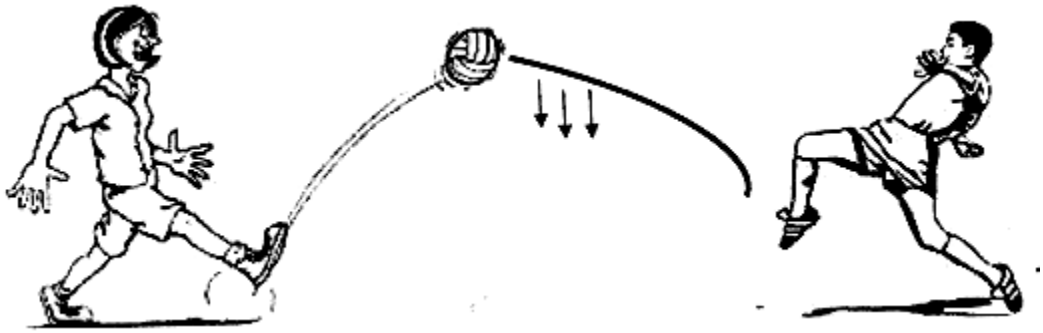
20. State any one economic importance of insects such as mosquitoes, houseflies, cockroaches and tsetse flies.

_____

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?

_____

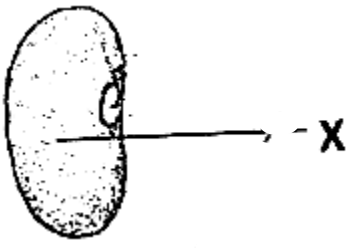
31. Give any one common use of shadows to people and other animals.

_____

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.

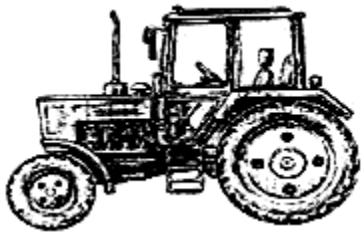
_____

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) _____

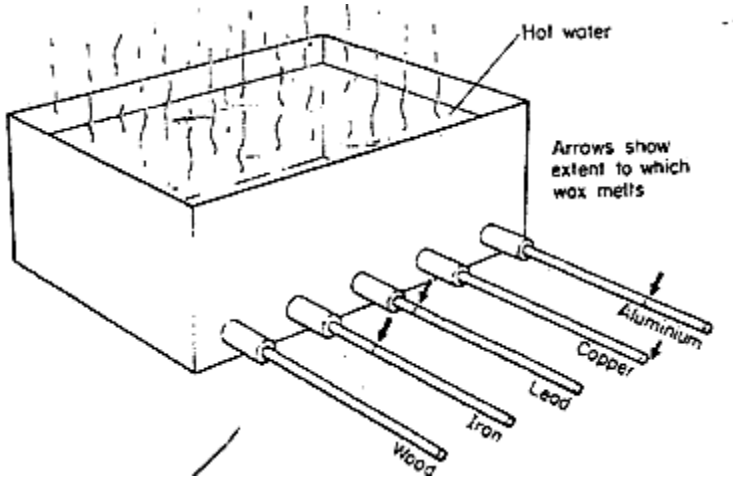
b) State any one importance of keeping any of the animals you have given in (a) above.

_____

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.

_____

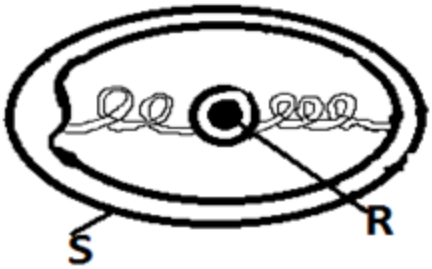
8. Why is a snail regarded as a vector?

_____

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.

_____

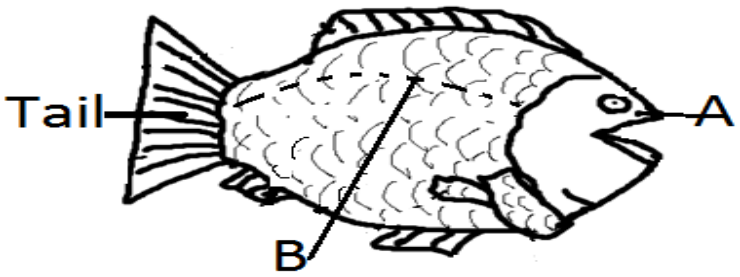
20.Why do we use soap when bathing?

_____

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

_____

Below is a diagram if 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.

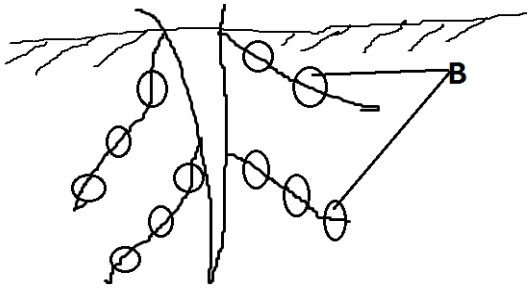
_____

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.

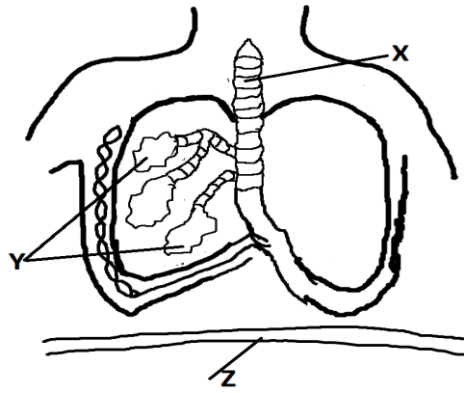
_____

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?

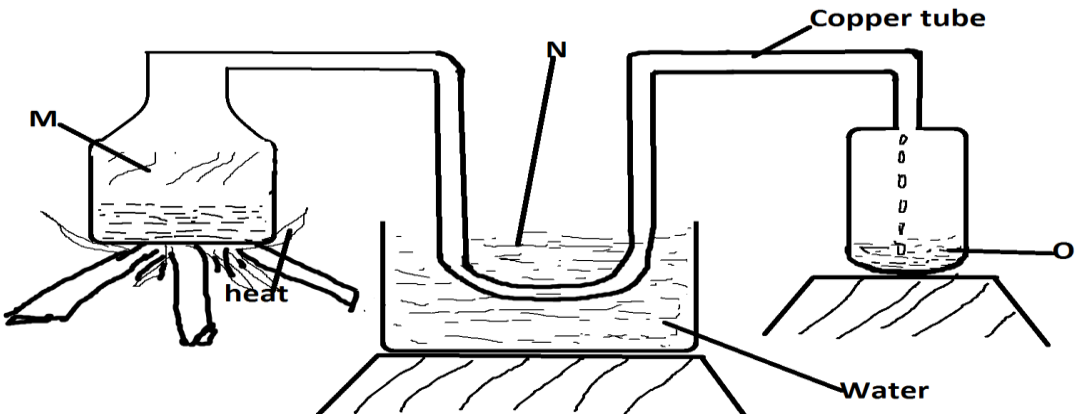
_____

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.

_____

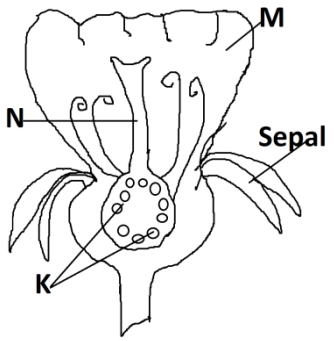
_____

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?

   _____

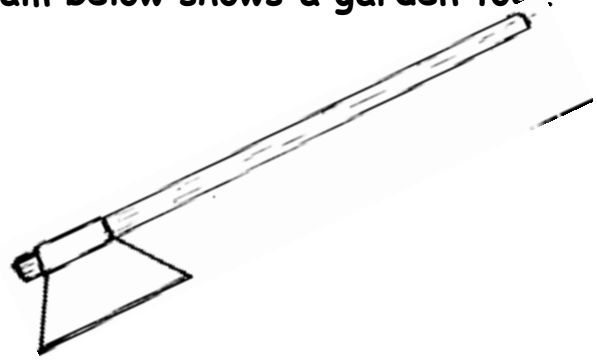
6. State any one characteristic common to all insects.

   _____

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.

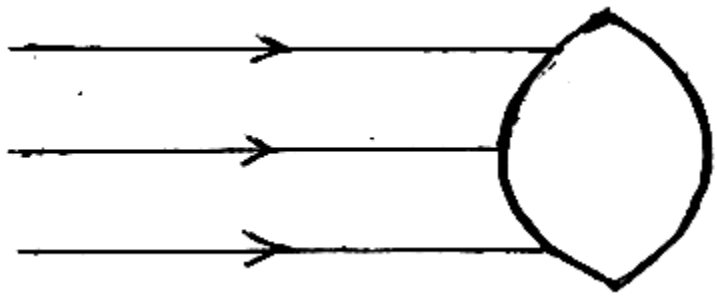
13. What type of weather supports farmers to plant their crops?

_____

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?

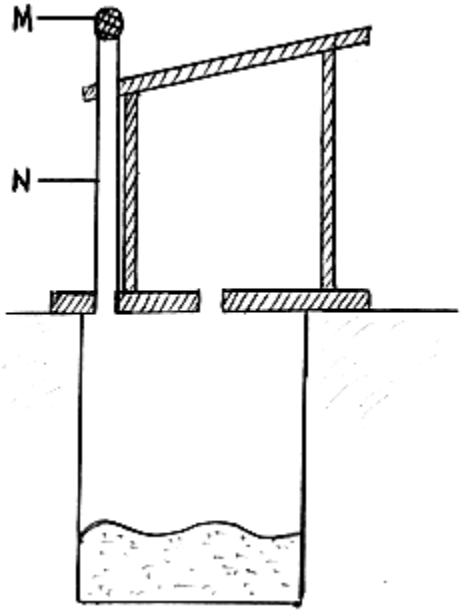
_____

_____

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) _____

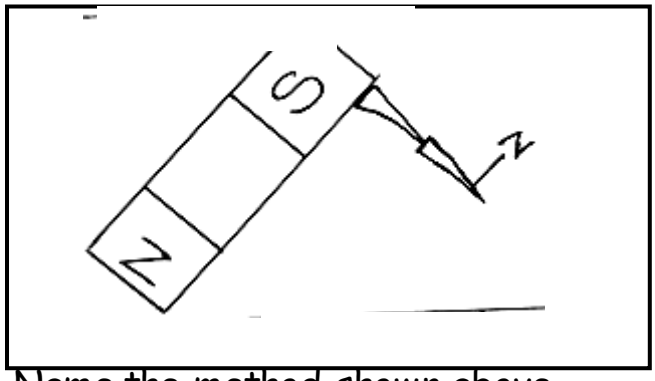
ii) _____

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

_____

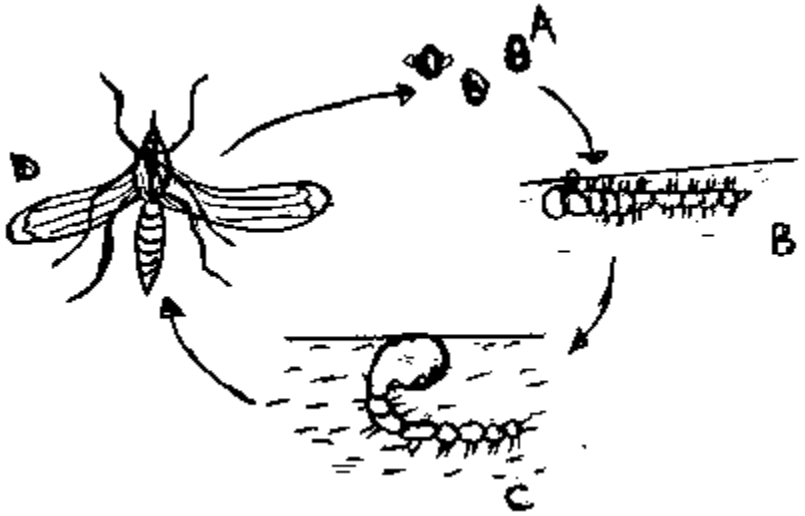
iii) wedges

_____

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)_____

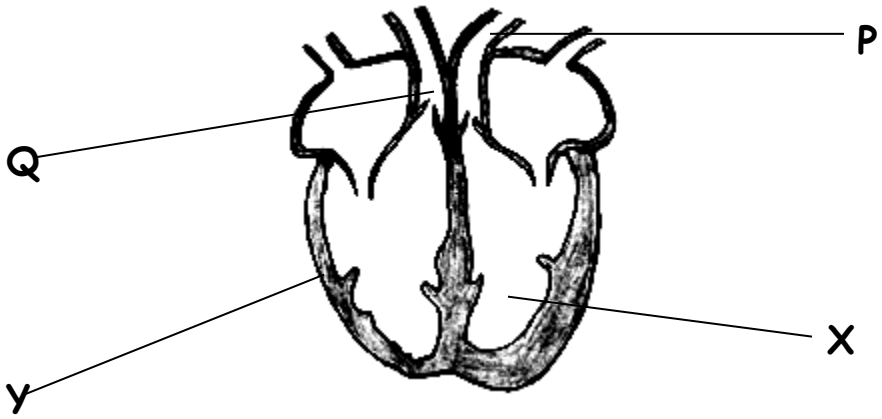
b) Give any one use of alcohol to people.

_____

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.

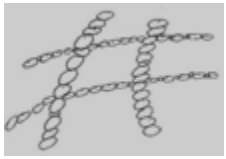
_____

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.

_____

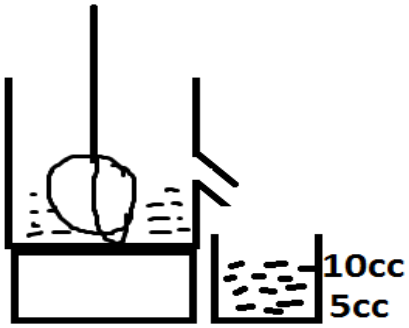
13. What do we call animals that feed on grass only?

_____

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.

_____

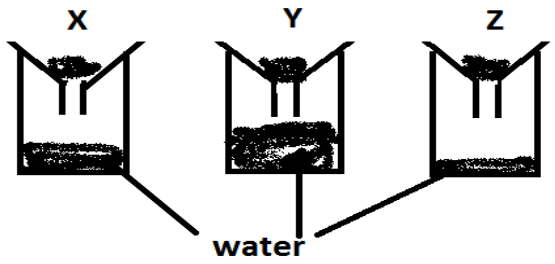
b) Give any one disadvantage of using herbicides (chemicals) in controlling weeds

_____

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 classed 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 corps?

_____

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?

_____

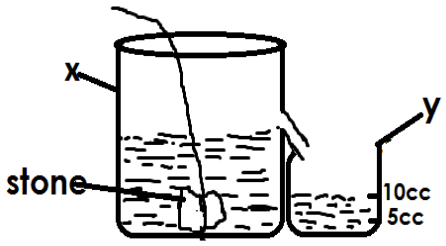
c) State the importance of a queen excluder in a modern beehive.

_____

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

_____

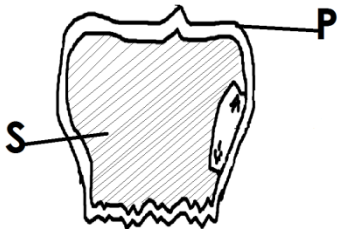
b) How is burning similar to rusting?

_____

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) _____

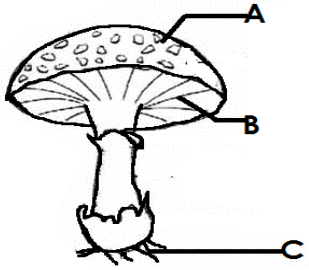
ii) _____

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	

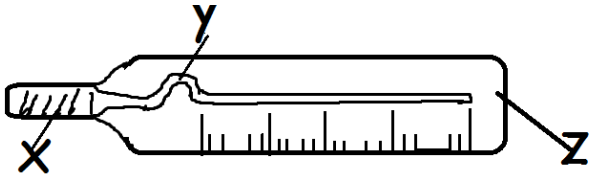
b) Identify the group of mammals in List C.

_____

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.

_____

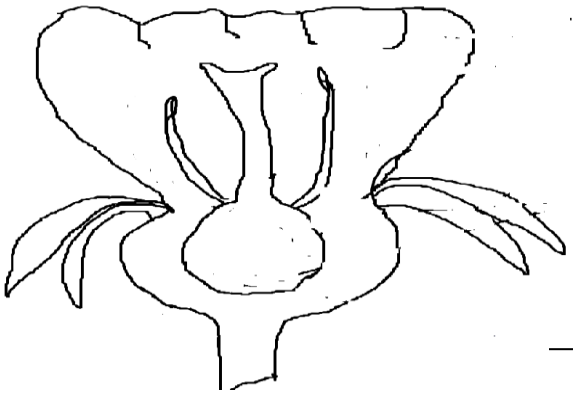
b) Mention **two** types of pollination.
(i)

_____

(ii)

_____

c) Which type of pollination is most likely to occur in the flower drawn below?

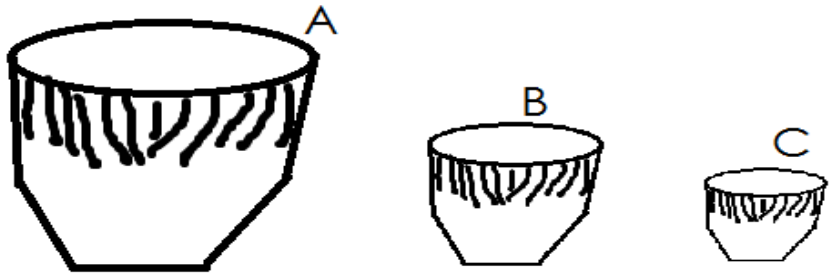


_____

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) _____

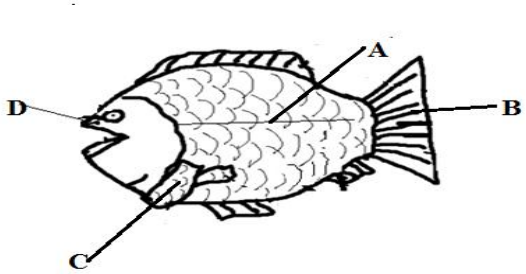
(ii) _____

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.

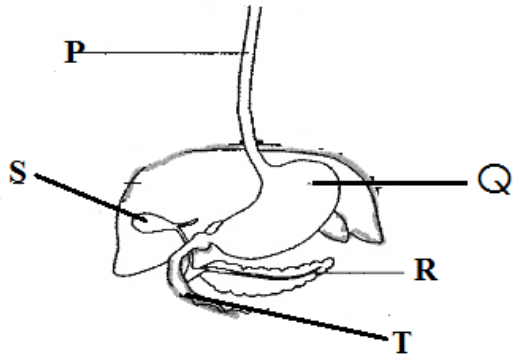
(i) _____

(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.

_____

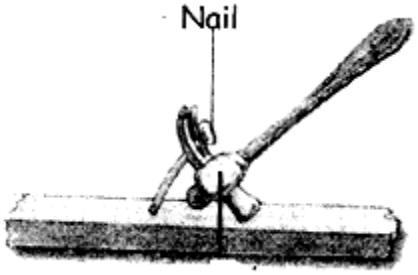
11. How do railway line constructors prevent bending of rails during railway construction?

_____

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?

_____

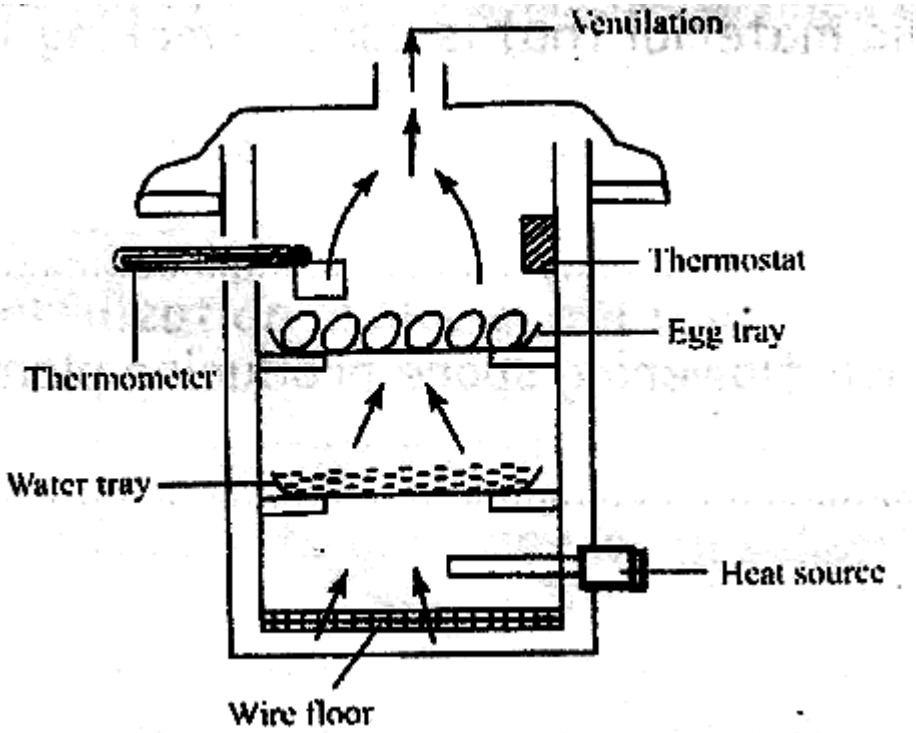
c) Give one way in which the electricity in (a) above is a disadvantage in the environment.

_____

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.

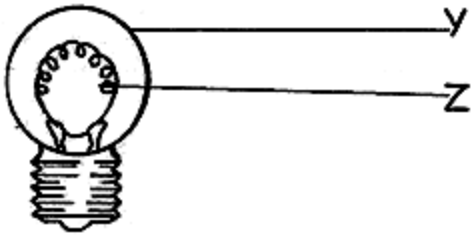
i)_____

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?

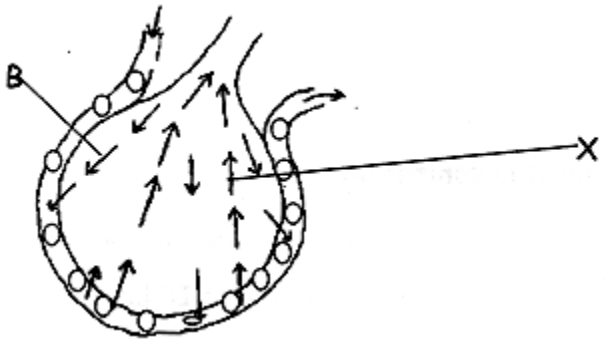
_____

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

_____

d) Convert 77^0F 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

_____

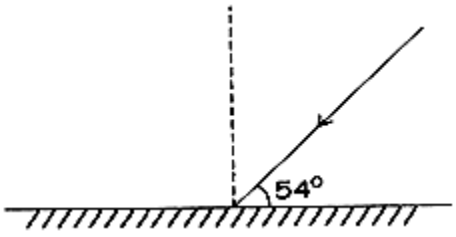
ii) Screen

_____

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	**Excretory products**
Liver	water vapour
Skin	excess sugar
Kidneys	lactic acid
Lungs	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 or 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.

_____

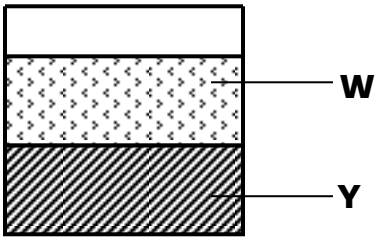
13. How does over-grazing affect the soil?

_____

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.

_____

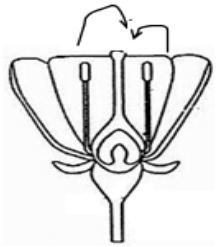
27. Why are schools encouraged to have a school garden?

_____

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?

_____

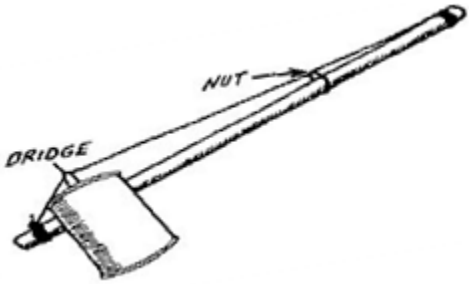
37. Write any **one** message that may be said to children during a health parade.

_____

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) _____

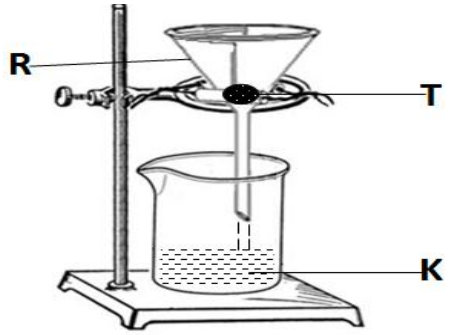
(ii) _____

(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. <u>The diagram below shows a bird's head. Use it to answer question 45.</u>

(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**<u>one</u>** bird that has a beak like the one drawn above.

_____

(d) State any **<u>one</u>** 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.

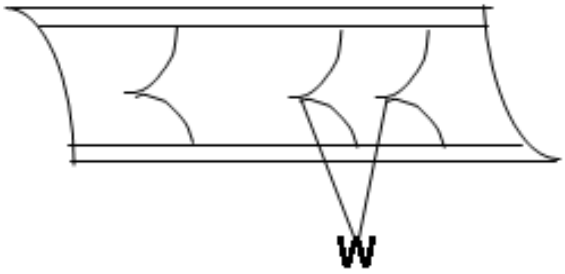
(i) Cotton _____

(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 ($\rightarrow$) 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.

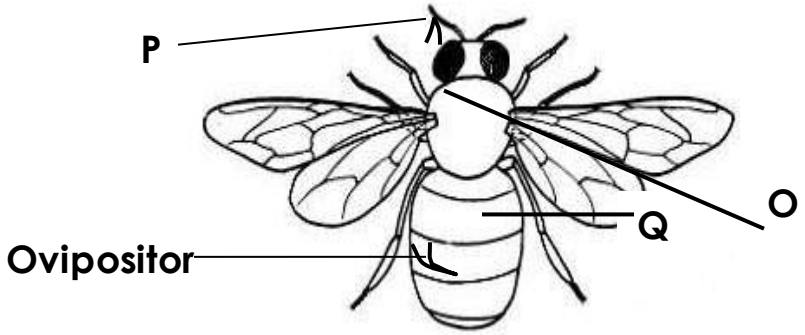
(i) _____

(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** _____

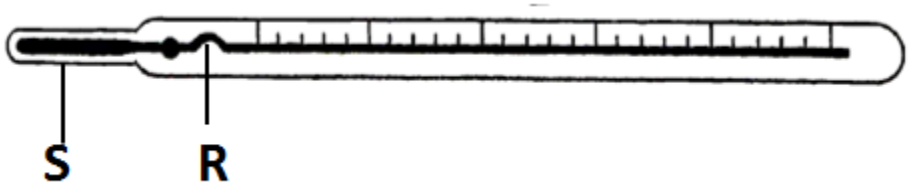
b) How is part marked **P** useful to an insect?

_____

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?

_____

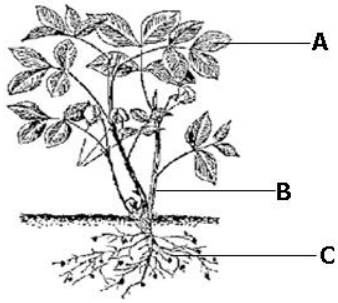
18. Apart from filtering blood, state one other function of the kidneys in the body.

_____

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.

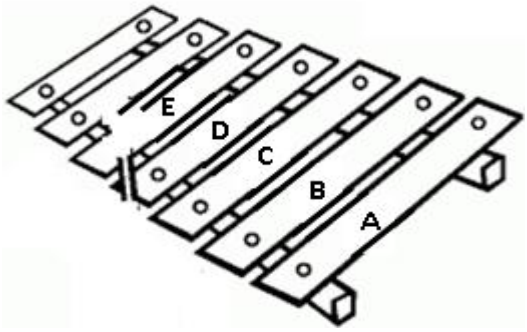
_____

(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.

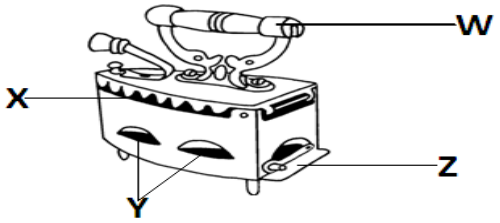
_____

(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?

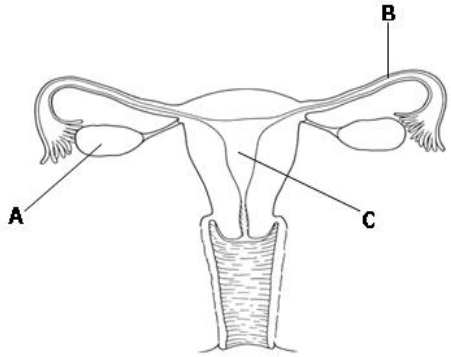
_____

(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	**B**
Yellow fever	amoeba
Malaria	trypanosomes
Sleeping sickness	virus
Dysentery	plasmodium

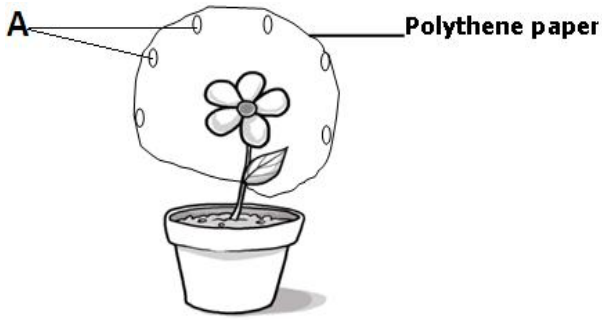
(a) Yellow fever _____

(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?

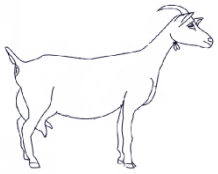
_____

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

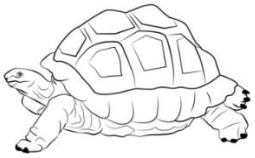
(i) _____

(ii) _____

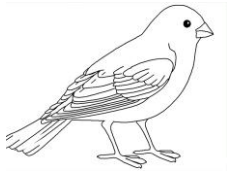
54. The diagram shows organisms in the environment. Use them to answer questions that follow.



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?

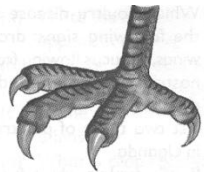
_____

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

_____

_____

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



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

_____

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

_____

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

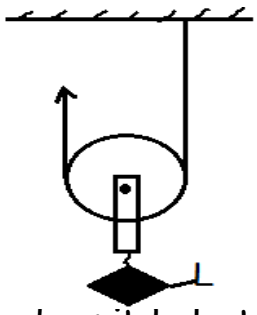
_____

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

_____

_____

The diagram shows a type of a pulley system.



13. How does it help to make work easy?

    _____

    _____

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

    _____

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

    _____

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

    _____

17. Give an example of a stem tuber.

    _____

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

    _____

    _____

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

    _____

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

    _____

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

    _____

22. What is the use of a urinary bladder?

    _____

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

    _____

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

    _____

25. Which immunisable disease paralyses limbs of human beings?

    _____

26. What causes evaporation in a water cycle?

_____

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

_____

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

_____

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

_____

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

_____

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

_____

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

_____

_____

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

_____

34. What is passive smoking? _____

_____

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

_____

36. Why is human skin called an excretory organ?

_____

_____

37. Which part of a living house allows carbondioxide out?

_____

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

_____

39. Which blood vessels have valves?

_____

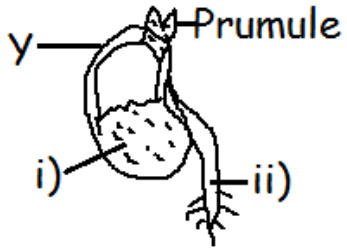
40. How would the seed below be dispersed?

_____

_____

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: _____

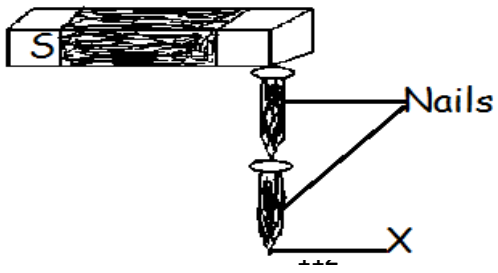
(ii) anaemia: _____

(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 s the use of each of the following during pollination?

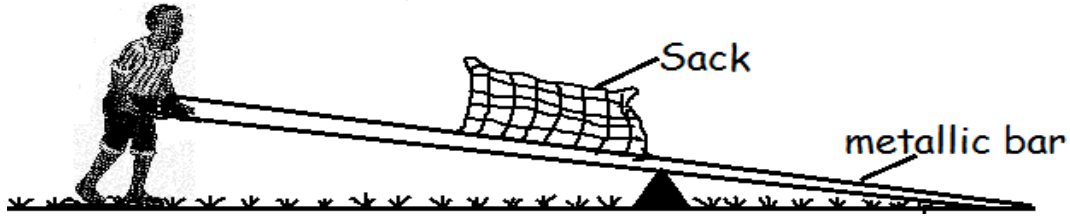
(i) anthers: _____

_____

(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.

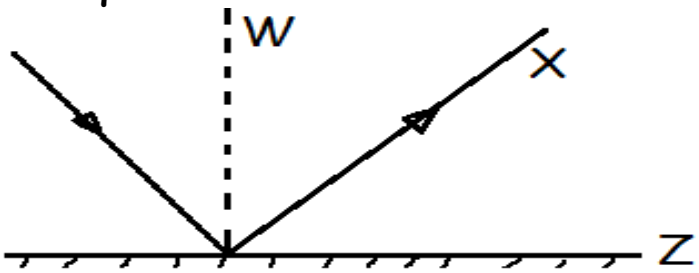
_____

(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) _____

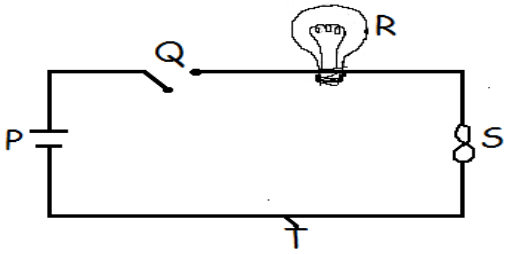
ii) _____

(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.

_____

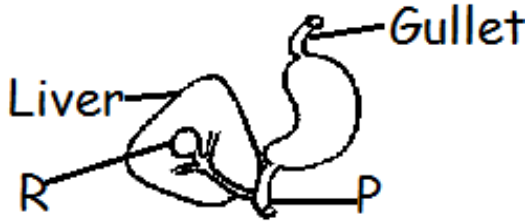
_____

(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.

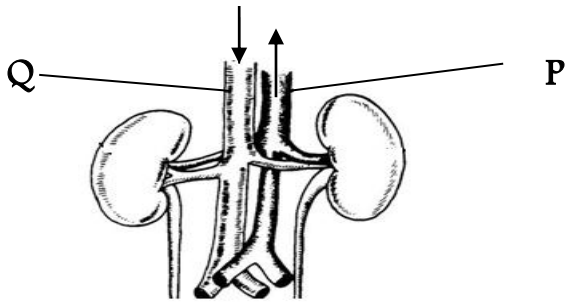
_____

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

_____

_____

The diagram blow 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.

_____

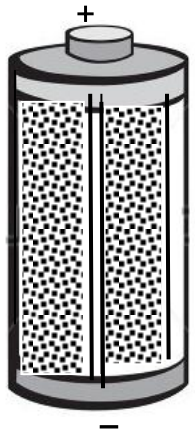
35. Mention one way termites benefit from the soil.

_____

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)_____

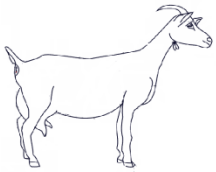
c) Apart from ears, mention any one other organ vertebrates used for detecting sound in their surroundings.

_____

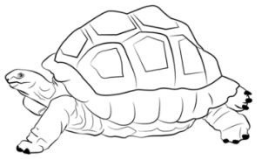
d) Why is it not advisable to clean the ears using sharp materials?

_____

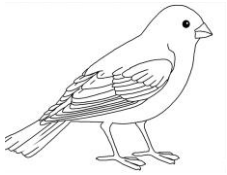
44. The diagram shows organisms in the environment. Study it carefully and answer questions that follow.



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) _____

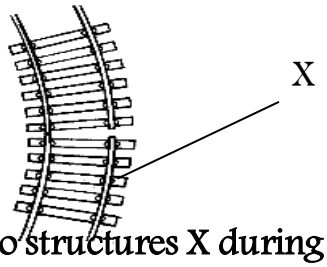
b) Mention any one example of an essential drug used to reduce pain.

_____

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)Explainwhat 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.

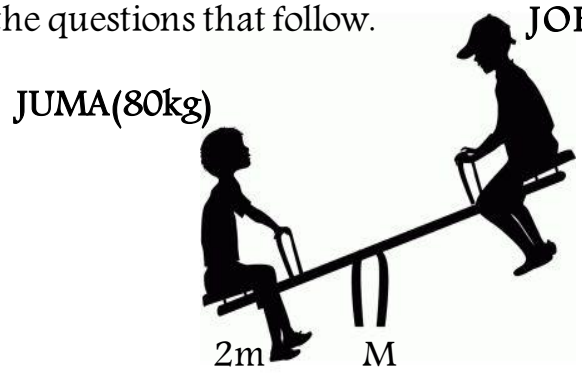
i) _____

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)_____

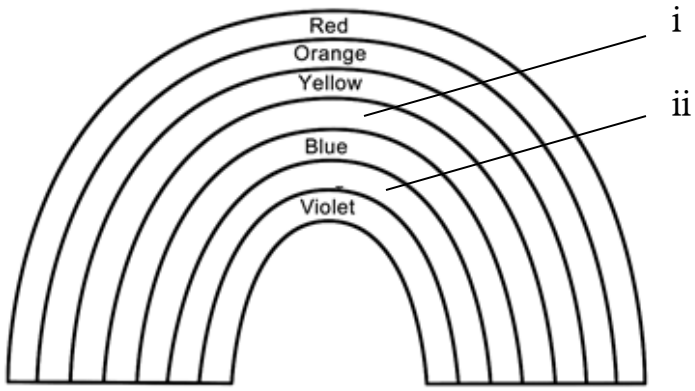
ii)_____

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?

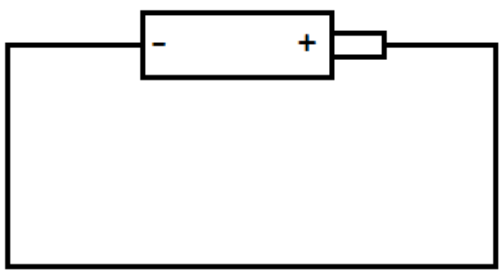
_____

_____

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?

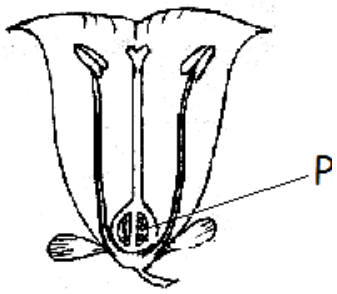
_____

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) _____

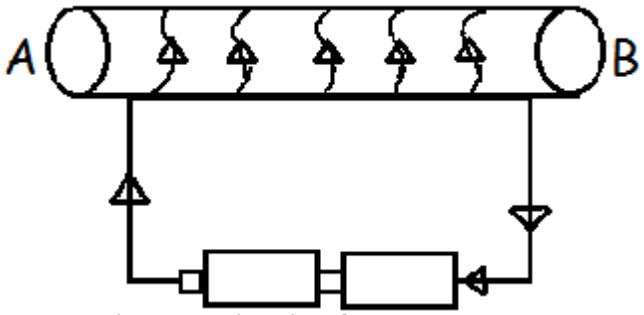
(b) State any one way water can be contaminated.

_____

(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	**List B**
Heart	carbondioxide
Kidney	sensory organ
Skin	circulation of blood
Lung	urine

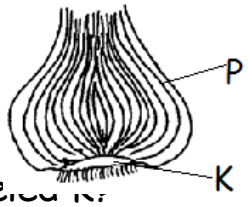
i) Heart: _____

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) _____

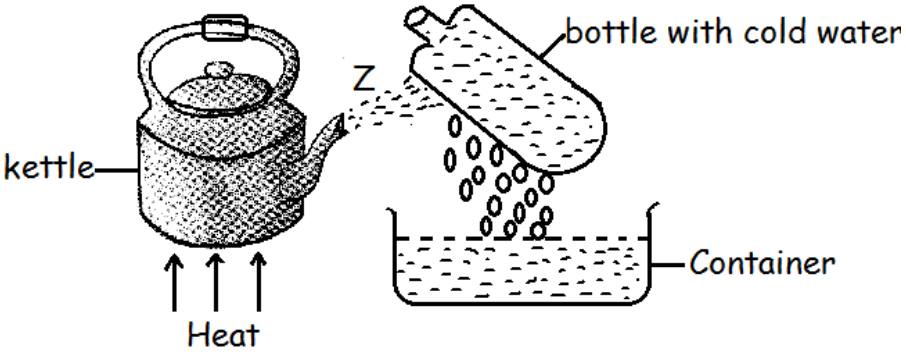
ii) _____

(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) _____

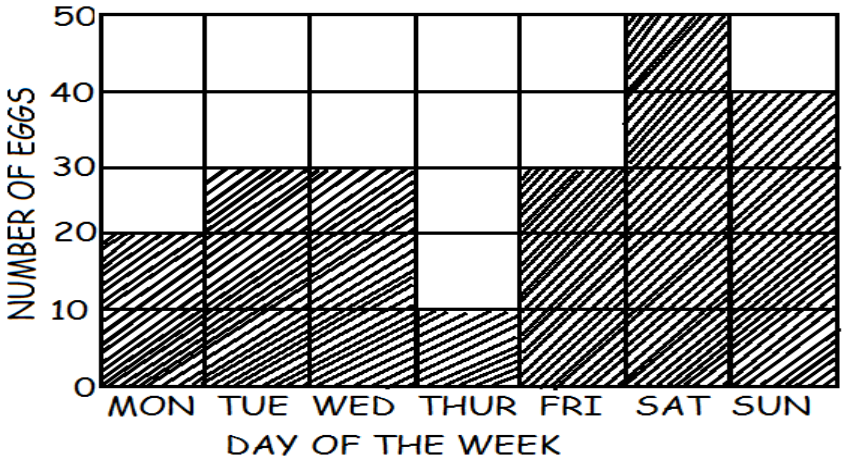
ii) _____

(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) _____

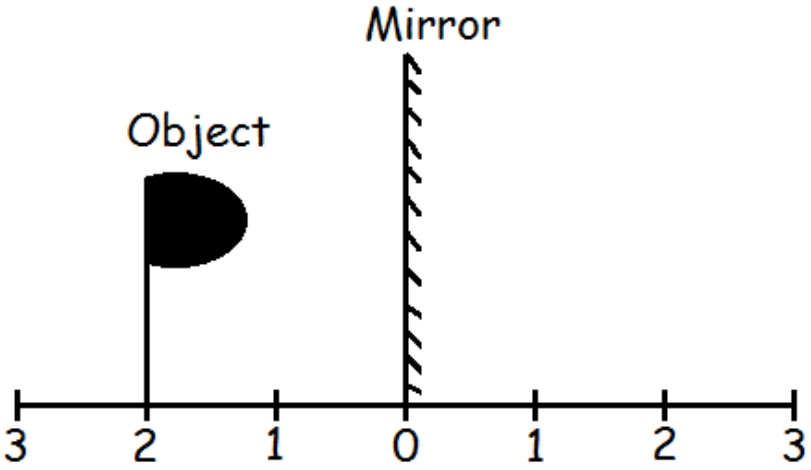
iii) _____

(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?

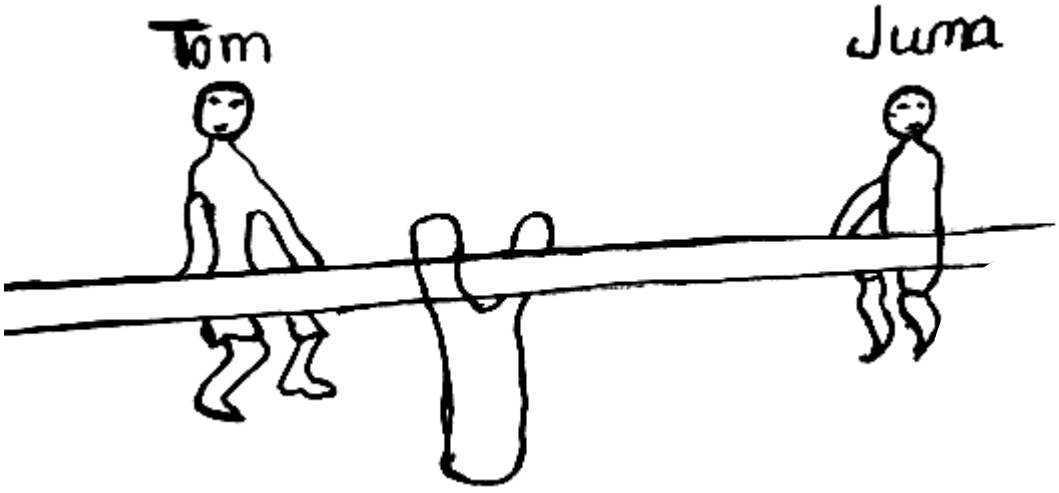
30. Give one difference between a spider and a cockroach.

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)_____

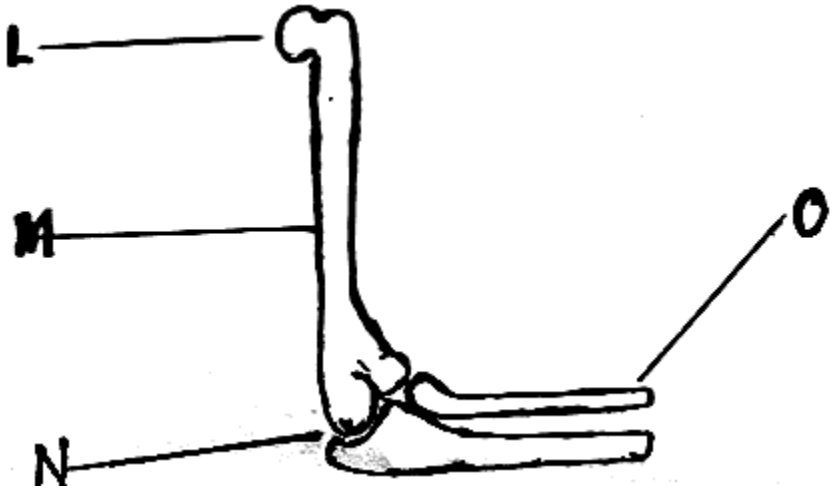
ii)_____

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.

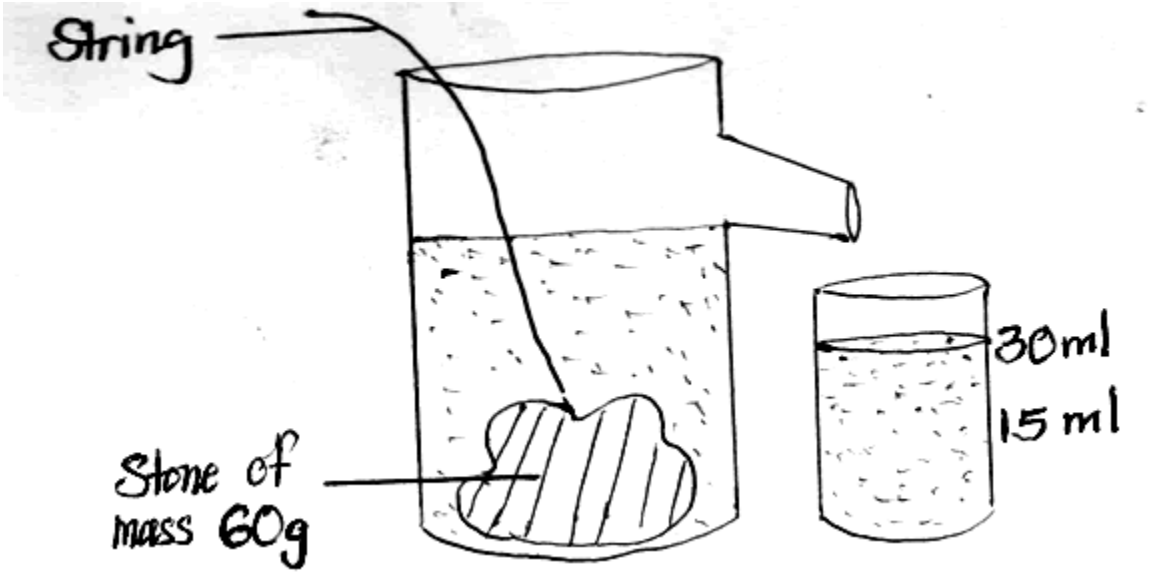
_____

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?

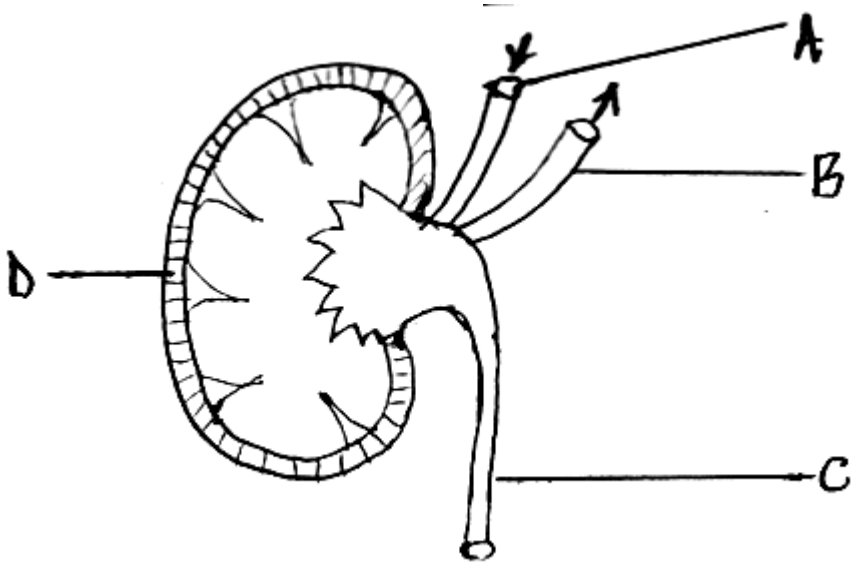
b) Identify any two elements of PHC respected at school.

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?

_____

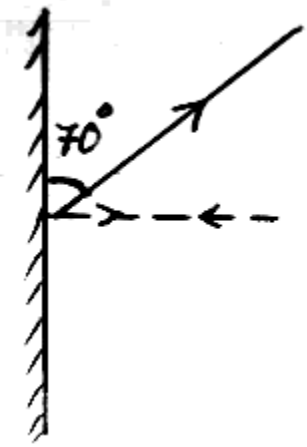
c) Give any one method of storing sound.

_____

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.

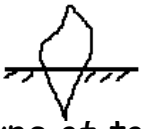
6. How is the propagation of sweet potatoes different from that of irish potatoes?

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?

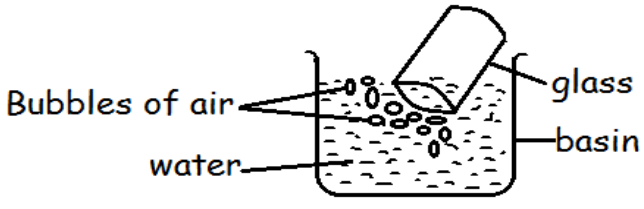
11. Identify any one way in which trees are able to reduce air pollution in the environment.

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 is 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.

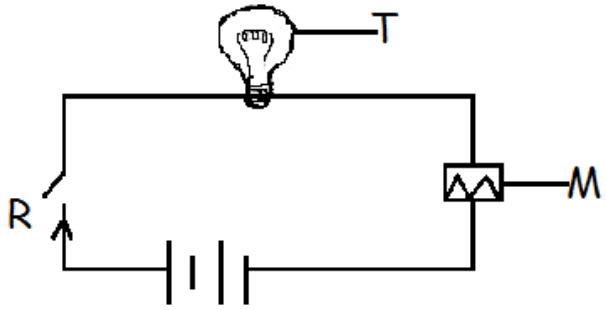
(i) Cleaning water sources:

_____

(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?

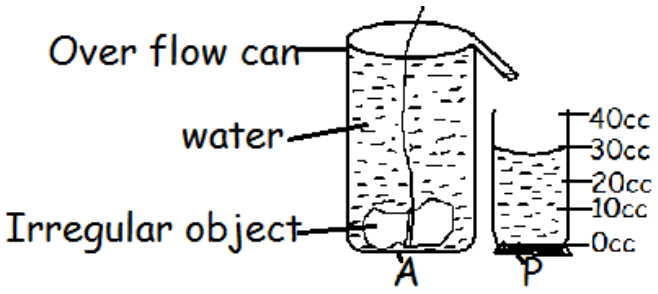
_____

_____

(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.

_____

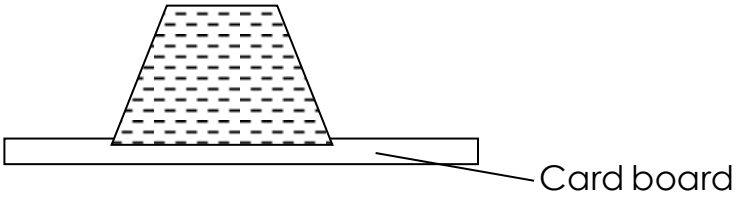
7. In which one way do crops benefit from trees in agro forestry?

_____

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 O^0cntigrade?

_____

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.

_____

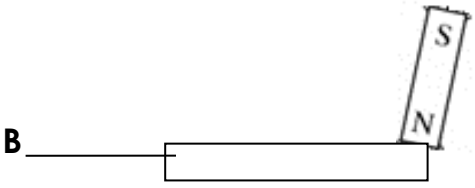
17. Identify one blood vessel which carries blood away from the heart.

_____

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 o 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.

_____

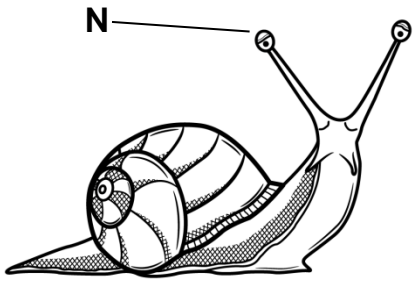
30. Emerson crushed garlic and Edinson in the next room could smell the garlic. Whet process enabled the smell of garlic to reach Edinson in the next room?

_____

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 being a bee hive.

_____

38. Identify the best way of controlling ecto parasites 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 _____

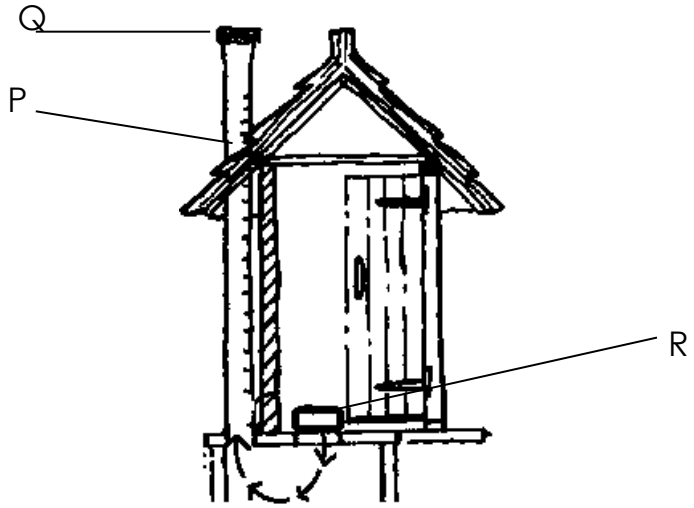
_____

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?

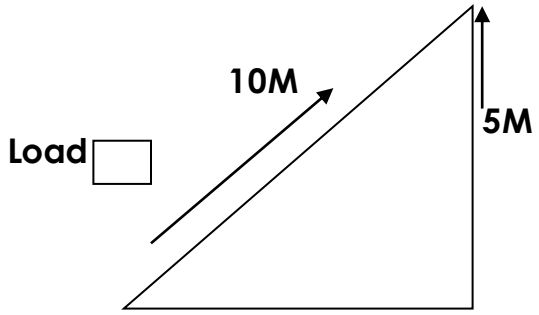
_____

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 bilhazia.

_____

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

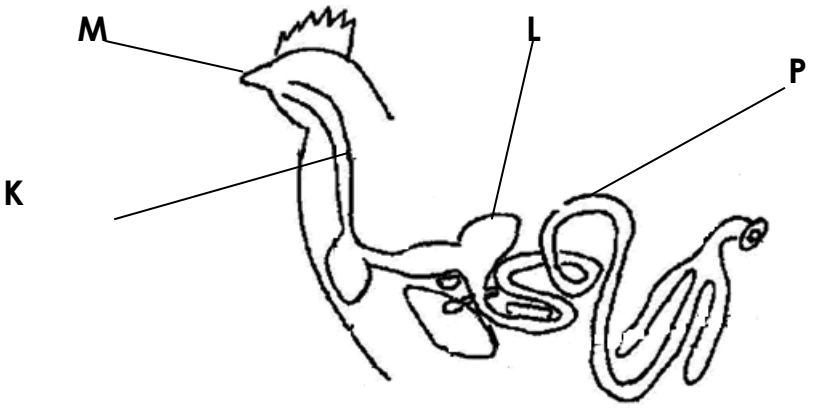
a) wind vane _____

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?

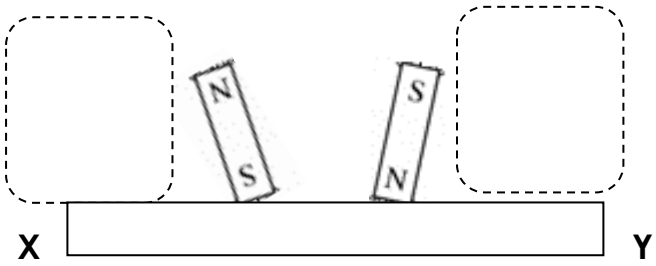
_____

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.

_____

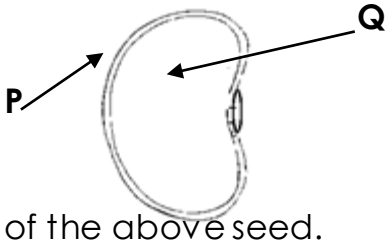
6. How is black jack seed propagated?

_____

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?

_____

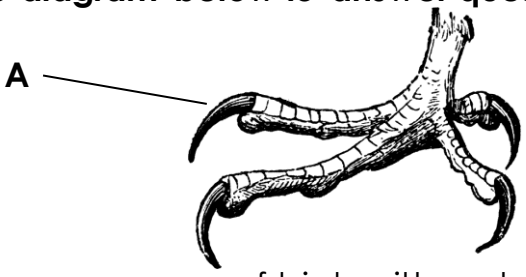
21. Besides brushing teeth, suggest one way of preventing tooth decay in children.

_____

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.

_____

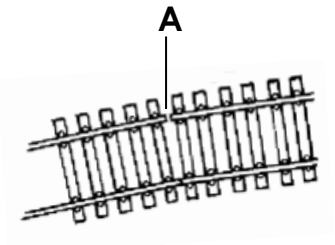
34. Besides protecting the heart, how else is the human skeleton important to the circulatory system?

_____

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 toadstol 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?

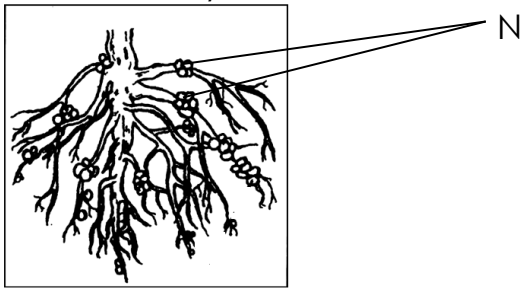
i)_____

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^{0}.

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	**Sources**
- Thermal electricity	- Fast flowing water
- Hydro electricity	- Unanium
- Geothermal electricity	- Fossil fuels
- Atomic electricity	- 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?

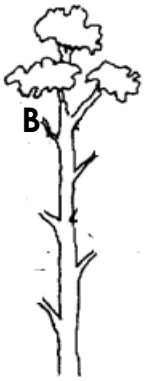
_____

d) State any one sign of tetanus in infants.

_____

48. **Below are methods of harvesting wood, use them to answer the following questions**

A



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.

_____

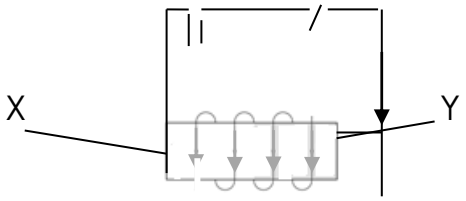
b) Name any one danger of accidents to school going children.

_____

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.

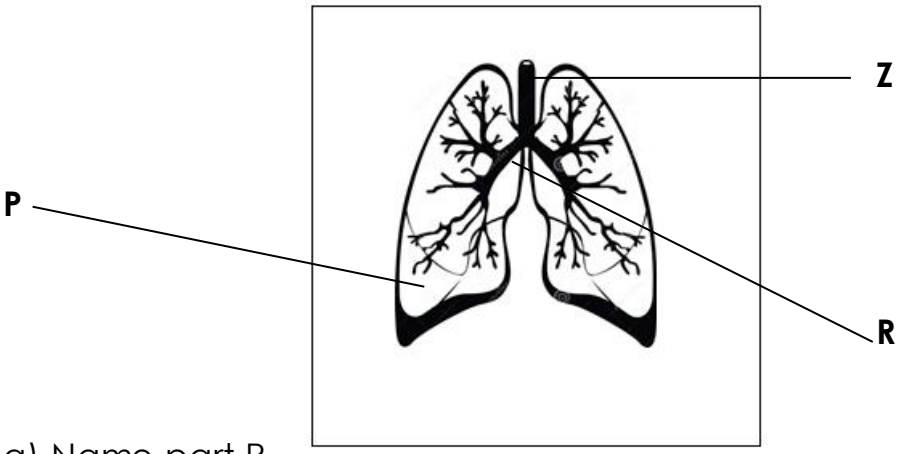
_____

_____

_____

_____

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?

_____

_____

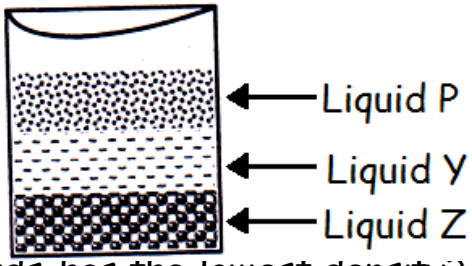
5. Where in the alimentary canal does digestion of food end?

_____

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 chrolophyll 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.

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?

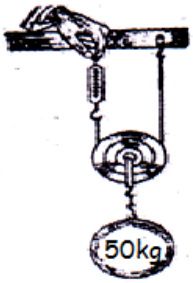
_____

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 149^0F to ^0C.

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?

_____

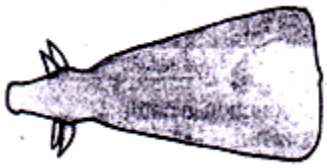
_____

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 vulvulus.

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 submarines 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?

_____

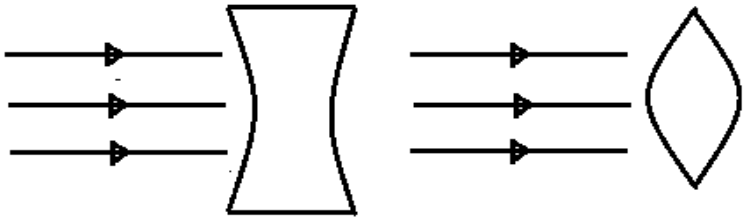
_____

(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.

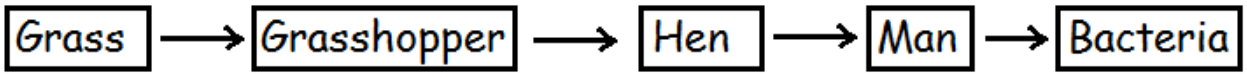
i) _____

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.

_____

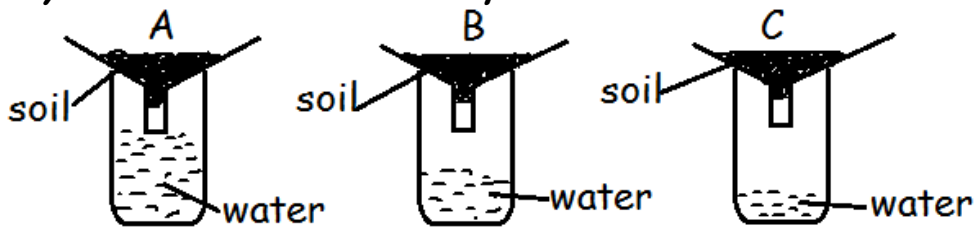
(c) Blood vessels that take away blood from the heart.

_____

(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?

_____

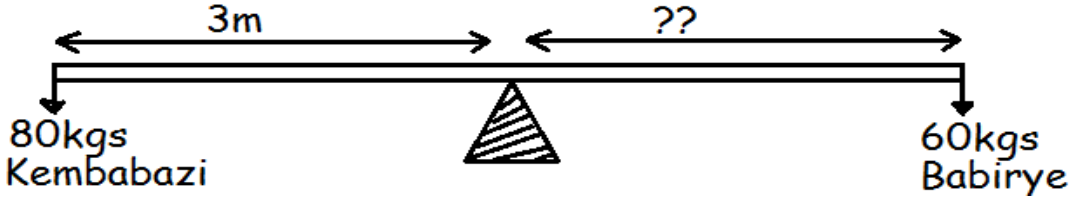
(c) Which type of soil has the highest water retention?

_____

(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) _____

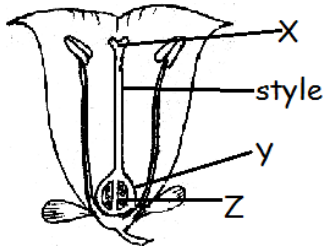
ii) _____

(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?

_____

_____