



**MAINA
EDUCATIONAL
SERVICES [MES]**

Way up is down

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**MAINA
PAMPHLET FOR SCIENCE QUESTIONS
PRIMARY FOUR TO SEVEN**

**EDUCATIONAL
SERVICES [MES]**

STUDENT'S NAME: _____

SCHOOL NAME: _____

DISTRICT: _____

PAPER ONE
SECTION A (40mks)

1. State the best way of making water safe for drinking.

2. Why are reptiles regarded as cold blooded animals?

3. How is dysentery and trachoma similar in the way they are spread?

4. Why is cross breeding taken to be important to a cattle keeper?

5. Identify any one characteristic of wind pollinated flowers.

6. How is elephantiasis spread?

7. Suggest any one method that is commonly used to control soil erosion in hilly areas.

8. Why is a displacement method used to measure the volume of a stone?

9. How is the pinna useful in the process of sound transmission in man?

10. Which immunisable disease affects the lungs of man greatly?

11. Why is chlorophyll in plants so important in the process of photosynthesis?

12. Apart from marasmus and scurvy, identify another nutritional deficiency disease that greatly affects children.

13. How does a compound leaf differ from a simple leaf?

14. Name any one example of a compound leaf.

15. Why is hydrochloric acid important in the stomach of a man in relation to the digestion process?

16. Which blood component helps to transport oxygen to all the body parts of man?

17. Suggest one way in which the human skin makes use of the light energy.

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

19. How is the pulmonary artery different from other arteries?

20. To which group of simple machine does a panga belong?

21. Why is crop rotation regarded to be a good farming method?

22. State one element of PHC that helps in the prevention of killer diseases.

23. How far away from water should the construction of pit latrine be?

24. Suggest one way that PIASCY messages can save guard P.7 candidates.

25. How does dehydration affect the human body?

26. Give one way the government can control over population in Uganda.

27. By what process does ice change into water?

28. Write down any one effect of alcohol to people who over use it.

29. Why is advisable to pick all polythene bags from crop gardens?

30. What problem do people who use toilets in towns face?

31. In the space provided below, draw a neat road sign that shows 'Railway crossing'.



32. According to the drawn road sign above, where can such a road sign be located?

33. Apart from vomiting and constipation, give another disorder of the digestive system.

34. How useful is the synovial fluid at human body joints?

35. What is the bending of light as it passes from one transparent medium to another called?

36. In the space provided below, draw a compound pinnate leaf.



37. Identify any one natural source of sound.

38. Give one sign of a child affected by Diptheria.

39. Which part of a plant responds to the stimulus geotropism?

40. Besides calcium, cite any other mineral needed for development of bones and teeth.

41. Identify the hardest animal tissue in its body.

SECTION B (60MKS)

42. (a) Apart from feather pecking, name any two other vices in poultry.

i. _____

ii. _____

(b) Give two solutions that can control vices in poultry.

i. _____

ii. _____

43. (a) Write down the main;

(i) Artery in the human body. _____

(ii) Vein in the human body. _____

(b) State the main function of the given blood components.

(i) Platelets

(ii) Red blood cells

44. (a) Why is it important to have drug prescription before medication?

(i) _____

(ii) _____

(b) How can smoking be discouraged among the youths?

i. _____

ii. _____

45. (a) In which way can people get infected with HIV/AIDS?

(i) _____

(ii) _____

(b) Why is the number of HIV/AIDS infected people becoming smaller in Uganda?

i. _____

ii. _____

46. (a) What is paddock grazing system in Uganda?

(b) Write down two advantages of the above named grazing method.

i. _____

ii. _____

(c) State any one disadvantage of above named method.

47. (a) Write down two forms of energy produced by an electric bulb in an electric circuit when the switch is closed.

(i) _____

(ii) _____

(b) Identify the energy change that take place in an electric circuit in batteries when the switch is closed.

(c) Suggest one condition that fails an electric bulb to function when the switch is closed.

48. (a) Why do some children have negative attitude about schooling in Uganda?

(i) _____

(ii) _____

(b) Identify any two examples of anti-social behavior by P.7 candidates at Tilda and Paul Primary School.

(i) _____

(ii) _____

49. (a) What is mulching?

(b) Why is mulching important to crop farmers?

- (i) _____
(ii) _____
(c) Identify one disadvantage of mulching.
(i) _____

49. (a) Apart from the levers, identify two other examples of simple machines.

- (i) _____
(ii) _____

(b) Name the turning point of a lever.

c) Write down any one advantage of using simple machines.

50. (a) To which body system do the lungs belong?

(b) In which way is the trachea adapted to its function?

(c) What happens to the diaphragm during inspiration?

(d) By what process does oxygen in air sacs join the blood stream?

51. (a) Why is mercury preferred to be used in a clinical thermometer than alcohol?

(b) Of what value is a constriction in a clinical thermometer?

(c) Convert 68°F to $^{\circ}\text{C}$

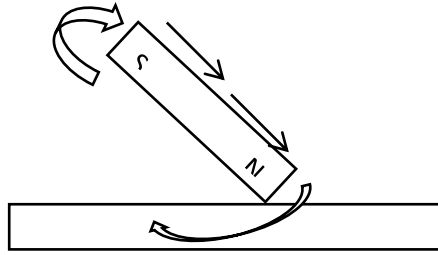
52. (a) Mention the largest bone in the human skeleton.

(b) How are muscles useful in the body?

(c) State any two functions of the human skeleton.

- (i) _____
(ii) _____

53. (a) What is magnetism?



(b) Which method of making a magnet is shown above?

(c) Which type of magnet is produced in question (b) above?

(d) Mention one way a magnet can be made to lose its magnetism.

(a) What is an energy resource?

(b) Identify one example of a fossil fuel.

(c) Give two uses of the sun to people in our environment.

(i)

(ii)

54. Match the following items in group A with those in group B correctly.

GROUP A

- (a) Hygrometer
- (b) Anemometer
- (c) Stevenson screen
- (d) Wind sock

GROUP B

- Tells direction and strength of wind
- Keeps delicate weather instrument
- Tells the speed of wind
- Measures humidity

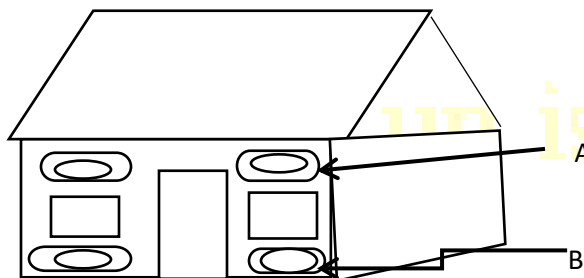
**PAPER TWO
SECTION A (40mks)**

1. Why should disinfectants be used in animal houses?

2. How does a caterpillar protect itself from its enemies?

3. Mention the part of the human ear that gives body posture.

4. How are blood platelets useful in a human body?

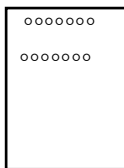


Why ventilators are put in position A and not position B?

5. Which kind of energy is stored in uranium?

6. Mention the useful living organism necessary in the making of yogurt.

7. Name the blood cells shown at the side.



8. Apart from the a spider, name any other organism that uses book lungs.

9. In which way is reproduction of ferns similar to that in puffballs?

10. Why does a freely suspended magnet face north-south direction?

11. Give an example of a very poisonous alcohol that can lead to death or blindness of people.

12. Why is free range system of raising poultry used in rural areas?

13. State one advantage of having a fuse in a circuit.

14. What is weight?

15. Mention the type of bees that have pollen baskets in their legs.

16. Which type of roots gives extra support to the maize plant?

17. Mention the substance the liver excretes that forms bile pigment in humans.

18. Give the characteristic that enables the silk cotton or tridax to be dispersed by wind.

19. State the function of ammonium chloride paste in a dry cell.

20. Mention one way trees like mvule try to reduce transpiration stream during the dry season.

21. How is an irish potato propagated?

22. What do itchy mites cause to human beings?

23. Give an example of static electricity in nature.

24. Which word is used to describe a liquid conductor of electricity?

25. Mention one way we can control the over exploitation of forest wood for fuel.

26. When is steaming up done to cows?

27. Identify one energy resource got from water.

28. Give one element of PHC which deals with the body's cleanliness.

29. State the type of electricity produced by lightning.

30. What state of matter is smoke?

31. Why do you think it is best for young girls to avoid getting pregnant?

32. In which direction do a magnet rest when suspended in air using a thread?

33. How is stagnant water at home of great danger to people?

34. One of the greatest problem in Uganda today is shortage of food supply in most homes. Cite one possible natural cause of this problem.

35. State one effect of gravitational force to objects in space.

36. Give one activity the community can do to reduce road accidents.

37. To which group of simple machines does a knife belong?

38. People rear sheep in Uganda. What name is given to a female sheep?

39. Name one garden practice where a trowel is used.

SECTION B (60MKS)

40. (a) What is meant by the term body posture?

(b) Give any two importance of having a correct body posture.

(i)

(ii)

(c) What body tissue joins muscles to bones?

41. (a) Name any two root tuber crops grown in your school garden.

(i)

(ii)

(b) Why is a rat regarded as a crop pest?

(c) Give any one role of members of the Young Female's club.

42. (a) Mention any one electrolyte that can be used in the simple cell.

(b) What type of terminal is the copper rod?

(c) Which word is used to describe both the zinc and copper plate?

(d) Apart from simple cells or wet cells, give one other example of a primary cell.

43. (a) Give any two components that form organic manure.

(i)

(ii)

(b) Why is potassium useful in plants?

(c) Mention the use of herbicides to a crop farmer.

44. (a) State one advantage farmers obtain from crop rotation practice.

(b) What is mixed farming?

(c) State two reasons why most farmers prefer mixed farming to other types of farming in Uganda.

(i) _____

(ii) _____

45. (a) What is a fracture?

(b) How can one tell that a victim of an accident has a compound (open) fracture?

(c) Differentiate between a sprain and a strain.

(d) Mention one way of maintaining a skeletal system in a good working condition.

46. (a) What is digestion?

(b) Where does digestion of food begin in man?

(c) State any two differences between ruminants and non-ruminants.

(i) _____

(ii) _____

47. (a) What are essential drugs?

(b) Give one example of an essential drug used in Uganda.

(c) Write down two characteristics of essential drugs.

(i) _____

(ii) _____

48. (a) Which scientific term describes the situation when the human body lacks water?

(b) Identify any two signs of the condition you have named above in (a).

- (i) _____
(ii) _____
(c) Give any one cause of the above named condition.

49. (a) Which part of the skeleton protects the following:

- (i) The lungs and the heart. _____
(ii) The spinal cord. _____

(b) Write down one group of animals which have:

- (i) Hydrostatic skeleton. _____
(ii) Exo-skeleton. _____

50. (a) State two ways a pregnant woman can care for her health.

- (i) _____
(ii) _____

(b) State two ways in which a pregnant woman can care for her unborn baby.

- (i) _____
(ii) _____

51. (a) Which term describes a form of energy that can make temperature rise?

(b) How does a cork prevent heat loss in a thermos flask?

(c) Which thermometer measures temperature in a room?

(d) Give one reason why mercury is commonly used in clinical thermometer.

52. (a) State the type of resources which belong to the following components of the environment:-

- (i) Minerals. _____
(ii) Plants. _____

(b) Give any one way in which wood fuel can be conserved.

(c) Name any one mineral used to make electric wires.

53. (i) State two cattle viral diseases common in livestock farms.

- (i) _____
(ii) _____

(b) Mention two ways of controlling the above diseases on a farm.

- (i) _____
(ii) _____

54. Match List A to List B correctly.

LIST A

- (a) Thinning
(b) Weeding
(c) Trimming roots
(d) Removing shed

LIST B

- Hardening off
To avoid drying of seedlings
Removing the weak seedlings
To avoid competition for nutrients

PAPER THREE
SECTION A (40mks)

1. State the major importance of culling to a poultry farmer.

2. What name is given to body building foods?

3. State one characteristic which shows that a bean plant is a living organism.

4. How do algae reproduce?

5. What is the use of an eye or scar found on the Irish potato to the plant?

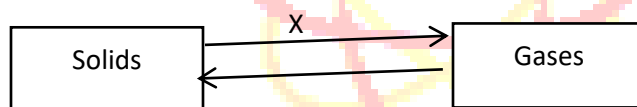
6. Apart from mineral, give any one other non-renewable resource in the environment.

7. When is polio 'one' vaccine administered to babies?

8. State any one way of storing music.

9. What happens to the biceps when the triceps relaxes?

Study the diagram below that shows a change of state of matter. Use it to answer the following questions.



10. Name the process labeled x.

11. How does an electrician guard oneself from electric shock during live wire?

12. Give the scientific term used to describe all kinds of birds at home.

13. Name any one organ that belongs to the excretory system.

14. Mention one part through which foreign bodies find their way into the human body.

15. Write down one reason why some people drink alcohol.

16. How are vectors different from germs?

17. In which part of the tooth are the blood capillaries and sensory nerves found?

18. Give one reason why rocks are grouped under non-renewable resources.

19. State the term in sound which refers to loudness or softness of sound.

20. Mention any one cause of under dose to a patient.

21. Apart from weathering, in which other way is soil formed?

22. Name the component of the soil which act as plant nutrients.

23. What are electric conductors?

24. Apart from installing lightning conductor on building, how else can we control accidents related to lightning?

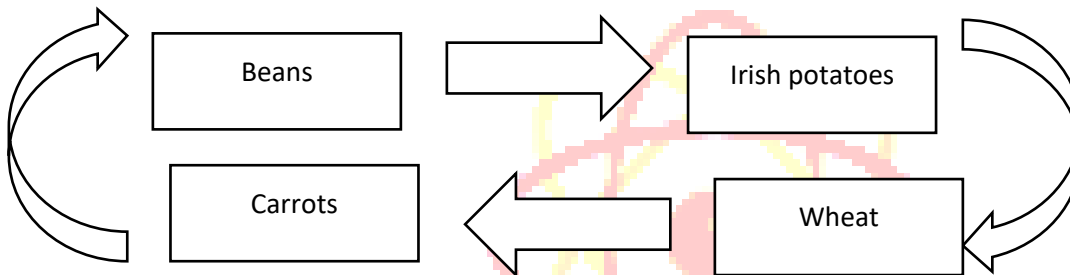
25. State any one effect of heat to metals.

26. Apart from light, name any other form of energy produced by the sun.

27. Mention any one enzyme produced by stomach walls during the digestion process.

28. Which type of teeth is well developed in dogs and cats?

The diagram below shows a crop rotation cycle. Use it to answer the questions that follow;-



29. What is the importance of beans in this cycle to the rest of the crops?

30. Why is debeaking an important practice in poultry?

31. What are cereal crops?

32. Mention any one state of matter that allows heat transfer by convection.

33. Mention the garden tool used for pruning.

34. Convert 20° C to °F

35. Give any one example of weeds you know.

36. What digestion disorder is prevented by taking enough water?

37. Give any one human disease caused by bacteria.

38. Where does fertilization take place in a flower?

39. Which part of the human ear helps in the body balancing?

40. Give any one adaptation of ileum to the process of food absorption.

SECTION B (60MKS)

41. (a) Name the germ that causes HIV/AIDS.

(b) ABC is a way of controlling the spread of the germs that cause HIV/AIDS. What does A stand for?

(c) Mention two groups of people who are at risk of getting HIV.

(i) _____

(ii) _____

42. (a) Which organ removes carbon dioxide from the body?

(b) To which body system does the organ that removes carbon dioxide from the body belongs?

(c) Apart from the organ named in (a) above, state any other two body organs that belong to the body system.

(i) _____

(ii) _____

43. (a) State the importance of the following parts found on a VIP latrine:

(i) Screen: _____

(ii) Vent pipe: _____

(b) Why is a VIP latrine not recommended to have a pit cover?

(c) How is a VIP latrine able to control diarrhoeal diseases in a home?

44. (a) Which deficiency disease is likely to result from the following:

(i) Lack of iodine: _____

(ii) Lack of iron: _____

(b) Why are children of nomadic societies less likely to suffer from kwashiorkor?

(c) State one danger of malnutrition in adults.

45. (a) What are deficiency diseases?

(b) Write down any two deficiency diseases you know.

(i) _____

(ii) _____

(c) How can one control kwashiorkor in infants?

46. (a) Name the two sources of energy.

(i) _____ (ii) _____

(b) State any two ways of saving energy at school.

(i) _____

(ii) _____

47. (a) Write the following in full.

(i) AIDS:

(ii) HIV:

(iii) PIASCY:

(b) Give any one sign and symptom of AIDS.

48. (a) What are annual crops?

(b) Name any two examples of annual crops grown in your area.

(i)

(ii)

(c) State any one way how crop farmers can care for annual crops in a garden.

49. (a) Name the element of weather measured by :

(i) A rain gauge.

(ii) A barometer.

(b) State two reasons why farmers should know about future weather changes.

(i)

(ii)

50. (a) Mention any two crop growing practices that control crop pests in a garden.

(i)

(ii)

(b) Name any two methods of planting crops.

(i)

(ii)

51. Complete the table below about deficiency diseases correctly.

Food value	Deficiency
Vitamin C	
Proteins	
	Marasmus
	Rickets

52. (a) Name any two types of teeth found in an adult person.

(i)

(ii)

(b) Write one disease that affects the teeth.

(c) What advice could you give to a friend who is having a shaking milk tooth?

53. (a) Mention two examples of diseases spread through poor disposal of faeces.

(i)

(ii) _____
(b) Give two ways of controlling the easy spread of communicable diseases in the community.

(i) _____
(ii) _____

54. (a) Name any two examples of insect vectors that undergo a complete life cycle.

(i) _____

(ii) _____

(b) Name any one domestic animal that can be grouped under vectors.

(c) Give one way of reducing the number of insect vectors in a latrine.

55. In the table below, List A shows stomach chambers and List B shows their order arrangement by number. Match items in List A with those of List B correctly.

List A

- (i) Omasum
- (ii) Reticulum
- (iii) Abomasum
- (iv) Rumen

List B

- First stomach chamber
- Third stomach chamber
- Second stomach chamber
- Fourth stomach chamber

PAPER FOUR

SECTION A (40 MKS)

1. Name the fungus used in the fermentation of alcohol.

2. Which disease of goats causes rotten smelling hooves?

3. How does untreated gonorrhea lead to barrenness in women?

4. Mention the group of invertebrates with segmented bodies and jointed legs.

5. Give any one use of water as an energy resource.

6. Mention one personal hygiene activity which controls skin diseases.

7. Which bi-product of respiration enables plants to make starch?

8. State any one sign of poor sanitation in a school community.

9. How does proper boiling of meat control tapeworm infestation?

10. Name the optical instrument that is used to see micro-organisms in blood.

11. How does mulching maintain moisture in the soil?

12. Mention any one example of a physical change.

13. Which component of an electric circuit enables the user to complete or break the circuit?

14. Name any one characteristic of essential drugs.

15. Give any one similarity between liquids and gases.

16. Mention any one way in which plants benefit from wind.

17. Apart from mites, give any one other example of an ecto-parasite in cattle.

18. Name the type of reflection where light rays are bounced in the same direction.

19. How do crop pests lead to malnutrition diseases in most homes?

20. Give any one way in which plants reduce the rate of transpiration.

21. How is germination in sorghum different from that in groundnuts?

22. Name the group of vertebrates the tadpole belongs to.

23. Which organ does the tadpole use for breathing?

24. State any one danger of poor oral hygiene.

25. How is the role of synovial fluid similar to that of cartilage at a joint?

26. State the role of bacteria during soil formation.

27. Mention any one traditional method of preserving meat.

28. To which group of simple machines does a fishing rod belong?

29. Name one example of wood fuel.

30. Which class of food is obtained from eating most of the tuber crops?

31. Why can't one remove husks from rice using a magnet?

32. Apart from food, name one other way in which water is useful to a fish.

33. Which immunisable disease in babies is controlled by using BCG vaccine?

34. How does a sweater keep a school child warm?

35. Mention any one danger of early sex to school going boys.

36. What name is given to the three smallest bones found in ear?

37. Which component of soil is needed by soil living organisms to respire?

38. State the food value a person gets after eating sweet bananas.

39. Apart from the human arm, name one simple machine that is a third class lever.

40. Which energy resource is got from a camel to people?

SECTION B (60 MKS)

41.(a) Name any two layers that make up the soil profile.

(i) _____ (ii) _____

(b) State the component of soil formed by decomposition.

(c) Mention the method of controlling soil erosion that involves making of steps across a slopping piece of land.

42. (a) Name the two types of digestion.

(i) _____

(ii) _____

(b) State the role of teeth and enzymes in the process of digestion.

(i) Teeth. _____

(ii) Enzymes. _____

43. (a) State the use of the following containers used in poultry.

(i) Chicken drinker. _____

(ii) Feeding trough. _____

(b) How is the rotating handle useful on the feeding trough?

(c) Mention any one way of caring for the above mentioned poultry equipments.

44. (a) Mention two elements of PHC promote on a health parade in a school.

(i) _____

(ii) _____

(b) Give one way in which children benefit from bathing regularly.

(c) State the danger of biting fingernails.

45. (a) Which type of change leads to formation of ash when substances are burnt?

(b) Give two characteristics of the above type of change.

(i) _____

(ii) _____

(c) Name the component of air that supports burning.

46. (a) Mention two examples of percussion musical instruments.

(i) _____

(ii) _____

(b) How do percussion instruments produce sound?

(c) Give one factor that affects the pitch of sound produced by a percussion musical instrument.

47. (a) To which body system do lungs, skin and kidney belong?

(b) State the main role of the skin in the body system mentioned (a) above.

(c) Which of the above body organs is affected by Emphysema?

(d) Give one good health life style that keeps the above body organs in a good working condition.

48. (a) State one danger of using dirty toilets/latrines in the community.

(b) Mention any two activities done to keep toilets/latrines clean at home.

(i) _____

(ii) _____

(c) How does proper use of latrines control the spread of diarrhoeal diseases?

49. (a) Give one example of useful bacteria in the environment.

(b) In which way do bacteria reproduce?

(c) Give any one harmful effect of bacteria to humans.

(d) Mention one way of controlling the harmful effects of bacteria.

50. (a) Name any two types of teeth.

(i) _____

(ii) _____

(b) Mention any one disorder of the teeth.

(c) Give any one source of mineral salts that make our teeth strong.

51. (a) Match the following parts of the reproductive system in list A to their functions in list B.

List A

(a) Epididymis

(b) Oviduct

(c) Testis

(d) Ovary

List B

Produces ova

Stores manufactured sperms

Is where fertilization occur

Produces sperms

52. Convert 95°C into degrees Fahrenheit

(4 marks)

53. (a) State the two types of Hepatitis.

(i) _____

(ii) _____

(b) What causes Hepatitis?

(c) Mention any one way of preventing Hepatitis.

54. (a) Identify any one example of chilopoda.

(b) State any one example of diplopoda.

(c) How do the chilopoda obtain their food?

(d) How do the diplopoda feed?

55. (a) Give any two sources of natural energy resources in the environment.

(i) _____

(ii) _____

(b) Mention any two artificial sources of energy resources in the environment.

- (i) _____
(ii) _____

PAPER FIVE
SECTION A

1. State any one property of air.

2. Name any one exotic breed of sheep that is kept for wool production.

3. Identify one natural source of water.

4. What is a resource?

5. How important is the practice of boiling water for drinking?

6. Which type of skeleton is possessed by a snail?

7. Name one non-metallic electric conductor used in dry cells.

8. State the importance of oxygen during seed germination.

9. Name the vaccine used to immunize infants against tuberculosis.

10. Give any one importance of staking tomatoes.

11. Which vector spreads sleeping sickness among people?

12. How is charcoal got from the environment?

13. Which food value is obtained from eating rice?

14. What type of family has father, mother and biological children?

15. State one method that a farmer can use to control pests in his/her garden.

16. Mention any one energy change that takes place in an electric bulb when the circuit is complete.

17. State the process by which food moves through the gullet.

18. Name the structure at the weather station where delicate weather instruments are kept.

19. How is fertilization in amphibians similar to that in fish?

20. Where in the reproductive system of a woman does fertilization take place?

21. Give the function of the micropyle to a seed.

22. Why is the left ventricle of the heart thicker than the right ventricle?

23. Name the waste product excreted by the liver.

24. Give the property of air used when drinking soda from the bottle using a straw.

25. State one first aid for near drowning.

26. Name the form of static electricity in nature.

27. Name the type of magnet got by using electrical method.

28. Apart from hearing, give any one other function of the ear.

29. Why does a doctor shake a clinical thermometer before using it on another patient?

30. Give a reason why farmers dry their harvested crops.

31. Which part of the skeleton protects the brain?

32. State the function of the urinary bladder in the human body.

33. Give any one characteristic of arachnids.

34. State any one way of keeping the circulatory system in a normal working condition.

35. How are lungs important to human beings?

36. State the element of weather that makes use of a rain gauge.

37. Give a reason why people urinate more frequently during cold weather than hot weather.

38. Where in the body is gastric juice produced?

39. Why is rain water in a rain gauge measured in millimeters?

40. What is anaerobic respiration?

SECTION B

41. (a) What is a weed?

(b) Give any two dangers of weeds to crops.

(i) _____

(ii) _____

(c) In which one way can we control weeds without using chemicals?

42. (a) State two differences between arteries and veins.

(i) _____

(ii) _____

(b) Give the importance of veins found in the body.

(c) Identify one disease which attacks Red Blood cells.

43. (a) Suggest two reasons why some farmers would prefer rearing exotic breeds of cattle to local ones.

- (i) _____

(ii) _____

(b) Mention any two cattle milk products you know.

- (i) _____
(ii) _____

44. Give two ways in which bacteria are useful in the environment.

- (i) _____
(ii) _____

(b) State two dangers of bacteria to man.

- (i) _____
(ii) _____

45. (a) Give two reasons why a pig sty should be kept clean.

- (i) _____
(ii) _____

(b) Why should a sty be constructed in a cool place?

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

46. (a) Identify the two sets of teeth in human beings.

- (i) _____
(ii) _____

(b) Name the hardest part of the tooth.

(c) Write one way of caring for our teeth.

47. (a) Write one type of smoking.

(b) Mention the type of smoking where a baby inhales tobacco smoking.

(c) Give two ways how smoking is dangerous to an individual.

- (i) _____
(ii) _____

48. (a) State one difference between mass and volume.

(b) Give the units for measuring:-

- (i) Mass: _____
(ii) Weight: _____

(c) Why is a pen called matter?

49. Match the following to their habitats.

ANIMALS HABITATS

- | | |
|--------------|--------|
| (i) Lion | Kennel |
| (ii) Cow | Hutch |
| (iii) Rabbit | Byre |
| (iv) Dog | Den |

50. (a) State any two types of germs.

- (i) _____
(ii) _____

(b) Give any two ways of controlling diseases without using drugs.

(i) _____

(ii) _____

51. (a) Mention two classes of food whose chemical digestion takes place in the duodenum.

(i) _____

(ii) _____

(b) Give any one disease that affects the digestive system.

(c) How does eating of roughages improve the working of the digestive system?

52. (a) Give the excretory products secreted by the following excretory organs.

(i) Lungs. _____

(ii) Kidney. _____

(b) Mention one way in which the skin regulates the human body temperature.

(c) To which other body system do the lungs belong besides the excretory system?

53. (a) Give any two artificial methods of vegetative propagation.

(i) _____

(ii) _____

(b) Mention any two advantages of vegetative propagation.

(i) _____

(ii) _____

54. (a) Name any one type of brooder.

(b) State one reason why chicks move towards the bulb.

(c) Mention any two systems of rearing poultry.

(i) _____

(ii) _____

55. (a) Give two examples of laboratory made essential drugs.

(i) _____

(ii) _____

(b) State two qualities of essential drugs.

(i) _____

(ii) _____

PAPER SIX

SECTION A (40 MKS)

1. Which part of air is used by plants during respiration?

2. Mention any one garden practice which needs dry plant materials to take place.

3. How is a rack helpful at home?

4. Apart from the human arm, name one simple machine that is a third class lever.

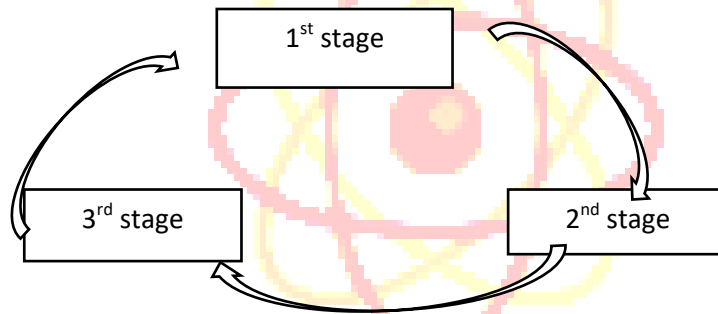
5. Apart from merino sheep, name any other wool breeds of sheep.

6. What name is given to the energy got from hot spring?

7. Mention the type of feathers which control heat loss from the bird.

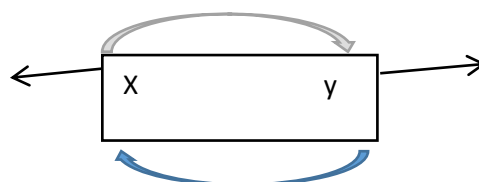
8. Write any one cause of dehydration to a person.
9. State the function of renal arteries in the human body.
10. What name is given to the plant in a food chain?
11. Name any one example of arachnids which has a poisonous sting.

Study the diagram below and use it to answer question 12.



12. Give any one insect that undergoes the lifecycle illustrated above.
13. Apart from bananas, pineapples and sisal, name another plant propagated by suckers.
14. How does soil depend on termites?
15. Write down one useful piece of information got from a child's health card.
16. Why are impulses from the eye sent to the brain?
17. Give any one reason why would the egg fail to hatch given favorable conditions.
18. State any one way a person can improve his or her immunity without using drugs.
19. What causes candidiasis?
20. Give any one scale in which temperature is measured.
21. Which state causes the loss of consciousness for a short time in a person?
22. How is conservation of resources in the environment important to human life?
23. As a candidate of P.7, why do you think greeting each other in class is important?
24. How are terraces able to control soil erosion?

Study the magnet below and use it to answer questions 25 and 26.



25. State the property of magnet shown above.

26. Name pole marked Y.
27. Name the disease that causes the swelling of the membrane that covers the brain.
28. Which part of a plant develops from a terminal bud?
29. Name the heat transfer method which can occur in both gas and liquid state of matter.
30. Write down one way in which human waste can be useful to people.
31. Mention one advantage of living in a nuclear family.
32. Which gas in air does leguminous use for making proteins?
33. State the function of the premolar teeth.
34. Why are parents advised to immunize their children up to the age of 6 years?
35. What is the standard unit for measuring volume?
36. State the importance of protecting the environment around us.
37. Why do some trees shed off their leaves during the dry season?
38. Mention one way in which man has made use of non-living things.
39. How important is a tongue to a chameleon?
40. Explain the term Biodiversity.

SECTION B (60MKS)

41. (a) Identify any one example of social insects.
- (b) State any one example of solitary insects.
- (c) Mention any two uses of honey.
- (i) _____
- (ii) _____
42. (a) State any one type of blood vessel which mainly carries deoxygenated blood.
- (b) Give any two functions of blood in the body.
- (i) _____
- (ii) _____
- (c) Mention any one disease which affects red blood cells.
43. (a) Mention two groups of road users.
- (i) _____
- (ii) _____
- (b) State any two causes of road traffic accidents.
- (i) _____
- (ii) _____

44. (a) Write down two major characteristics of insects.

- (i) _____
- (ii) _____

(b) Give any two major characteristics of Arachnids.

- (i) _____
- (ii) _____

45. (a) Match the items in List A with List B correctly.

List A

- (a) Insecticides
- (b) Acaricides
- (c) Pesticides
- (d) Herbicides

List B

- Pests
- Weeds
- Ticks
- Insect vectors

46. (a) Mention two types of smoking.

- (i) _____
- (ii) _____

(b) Name the drug in tobacco which causes addiction.

(c) Which component of tobacco which causes lung cancer.

47. (a) What is pollution?

(b) Give any two agents of pollination in flowers.

- (i) _____
- (ii) _____

(c) How do some plants avoid cross pollination?

48. (a) Which insect is responsible for the most deaths of infants in Uganda?

(b) What disease does the above insect transmit?

(c) Describe some symptoms of an infant suffering from the above disease.

(d) How can you prevent or reduce the impact of the above disease in your community?

49. (a) Write down one use of each of the following parts of a plant to man.

(i) Stem. _____

(ii) Flowers. _____

(b) How useful are the root nodules to the bean plant?

(c) State one value of caring for wet lands in the environment.

50. (a) State two values of keeping farm records.

- (i) _____
- (ii) _____

(b) What is mixed farming?

(c) Give one importance of mixed farming to a farmer.

51. (a) Write down two conditions which can lead to swarming of bees in a bee hive.

(i) _____

(ii) _____

(b) Why does a worker bee die after stinging an enemy?

(c) Give the importance of the propolis to worker bee.

52. (a) Complete the table below by filling in appropriately.

DISEASE	SUBSTANCE LACKED
Night blindness	(a) _____
(b) _____	Vitamin d
Marasmus	(c) _____
(d) _____	Iron

53. (a) What are the end products of digestion of the following:-

(i) Proteins. _____

(ii) Fats. _____

(iii) Carbohydrates. _____

(b) Why should one take food stuffs rich in vitamin A and Vitamin C?

54. (a) Mention two ways in which germs can spread to human beings.

(i) _____

(ii) _____

(b) How can people prevent the spread of germs in the community?

(c) Why should you prepare meat well before eating it?

55. (a) What is a suitable habitat for wading bird?

(b) Mention one example of a wading bird.

(c) How can you differentiate a wading bird from a swimming bird?

(d) What enables some amphibians to comfortably live in water?

PAPER SEVEN

SECTION A (40 MKS)

1. Name the type of injury caused by skin getting on contact with hot water.

2. Give any one factor that leads to alcohol.

3. What type of immunity is got through immunization?

4. Name the weather instrument used to measure the direction of wind.

5. Mention the type of cattle kept for meat production.

6. Name the body organ that filters blood in the body.

7. Name the fungus that makes the bread go bad.

8. Give any one condition that can lead to fainting.

9. Apart from water, give any one other raw material for the process of photosynthesis.

10. What feature makes birds to be grouped among warm blooded vertebrates?

11. In which state of matter does heat travel by conduction?

12. Give any one reason why a small drum produces high pitch of sound compared to a big drum.

13. Apart from frequency, give any one other factor that affects the pitch of sound.

14. What form of mechanical energy is possessed by a ball before it is kicked?

15. State any one advantage of keeping exotic breeds of rabbits over local breeds.

16. Name the method used to find the volume of irregular objects.

17. Mention any one mineral that helps in the formation of strong teeth.

18. How is a vent pipe important on a VIP latrine?

19. Give any one reason why loam soil is the best for crop growing.

20. How is a stretcher useful to a first aider?

21. State any one characteristic of a good cattle shade.

22. In which way are valves important in the human body?

23. Identify the immunisable disease which a P.7 candidate of Tilda and Paul Primary School can obtain through drinking unboiled water.

24. Point out the likely cause of goitre in people living in rural areas in Uganda.

25. What is soil profile?

26. How can alcoholism result into poor health?

27. State the importance of having proper ventilation in an animal house.

28. How is an onion plant propagated?

29. Which word describes the type of change in matter which takes new forms completely?

30. Point out one way in which poultry is important to your health.

31. What is polyculture?

32. Why do some objects float when put on water?

33. How does poor hygiene cause diseases to people in urban areas?

34. Give one example of an exotic breed of rabbits reared in Uganda.

35. Why do you think you fall back on the ground when you jump up very high?

36. Which component in the environment gives the basis for crop growing?

37. Identify the main source of food to animals.

38. Why do you think animals are unable to see things around corners?

39. How is feeding in grasshoppers different from feeding in bees?

40. Identify the type of fracture where the bone remains within the skin.

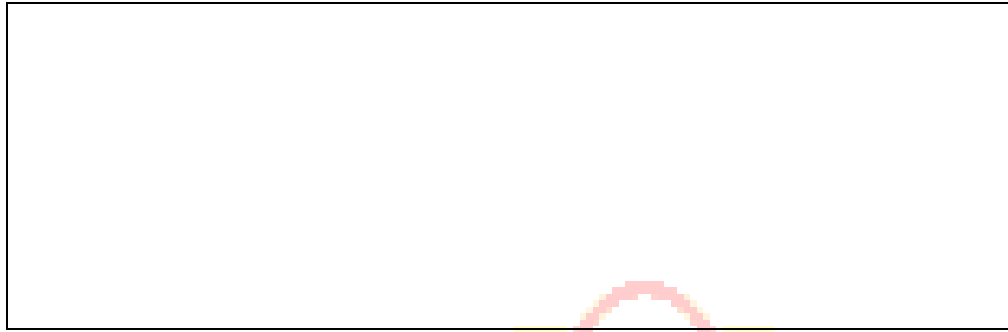
SECTION B (60MKS)

41. A P.7 candidate of Tilda and Paul Primary School did an experiment investigating the volume of a stone. The first reading before the stone was immersed was 30cc and 50cc after immersing the stone.

(a) Which method was used to find the volume of the stone?

(b) Calculate the volume of the stone.

(c) If the density of the stone is 40g/cc. Find its mass.



(d) Why did the stone sink in water?

42. (a) Why is the trachea made up of rings of cartilage?

(b) Where does gaseous exchange take place in the lungs?

(c) Mention any two immunisable diseases of the respiratory system.

(i) _____

(ii) _____

43. (a) Mention any two characteristics of exotic breeds of cattle.

(i) _____

(ii) _____

(b) Give any one advantage of keeping local breeds of cattle over exotic breeds.

(c) Name the type of cattle with a triangular body shape.

44. (a) Mention any two causes of soil erosion.

(i) _____

(ii) _____

(b) Give any two agents of soil erosion.

(i) _____

(ii) _____

45. (a) Give any two conditions necessary for rusting to take place.

(i) _____

(ii) _____

(b) Mention any one effect of rusting on metallic tools.

(c) Name any one substance used to prevent rusting in metals.

46. (a) Write down any two diseases of the reproductive system.

(i) _____

(ii) _____

(b) State any two ways how STDs can be prevented.

(i) _____

(ii) _____

47. (a) Give any two signs of a nanny goat on heat.

(i) _____

(ii) _____

(b) What is the gestation period for a nanny goat?

(c) Write the term used to mean giving birth to goats.

48. (a) Name the type of germination where seed cotyledons remain under the ground.

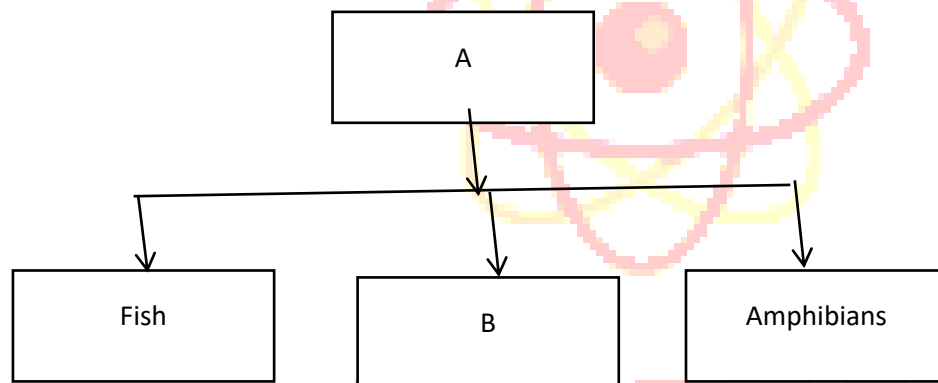
(b) Give any two examples of plants whose seeds undergo the type of germination mentioned above.

(i) _____

(ii) _____

(c) Mention any one condition necessary for germination to take place.

49. Below is the chart showing classification of vertebrates. Study it carefully and answer questions that follows:-



(a) Name the group of animals that belong to:-

(i) A _____

(ii) B _____

(b) Give any one example of an amphibian.

(c) What type of fertilization is found in fish?

50. Mr Maina fell sick on Monday and recovered after three weeks.

(a) What type of immunity did he attain?

(b) Apart from the above type of immunity, mention any one other type of immunity.

(c) Give one reason why breast milk is highly recommended for babies.

(d) What is immunity?

51. (a) State the difference between a germ and a vector.

(b) Give any one example of a germ you know.

(c) Name any one example of a vector.

(d) Write down any one way one can control germs in a community.

52. (a) Write STDs in full.

(b) Give any two STDs you know.

(i) _____

(ii) _____

(c) What advice would you give your fellow candidates to help them avoid HIV/AIDS?

53. (a) Name any two examples of crops that store food in the leaves.

(i) _____

(ii) _____

(b) Which part of the leaf does a plant use for breathing?

(c) State any one way plants protect themselves from enemies.

54. (a) Give the meaning of the word photosynthesis.

(b) Name two conditions needed for photosynthesis to take place.

(i) _____

(ii) _____

(c) Why can't photosynthesis take place at night?

55. Match the List A to List B correctly.

LIST A

(a) Capillaries

(b) Veins

(c) Septum

(d) Arteries

LIST B

Have valves

Have thick muscles

Smallest blood vessels

Divides the heart into two parts

**PAPER EIGHT
SECTION A (40MKS)**

1. What germ causes gonorrhoea?

2. Who is an HIV negative person?

3. Why should all people at home participate in proper sanitation?

4. Write down any one advantage of having an extended family.

5. What causes most people in Uganda especially females to get HIV/AIDS easily?

6. Write down one symptom a person with HIV/AIDS may have.

7. Give one way earthworms benefit from the soil.

8. Give the importance of stomata found on plant leaves.

9. Mention one activity done by farmers to improve soil fertility.

10. Name one non-living agent of soil erosion.

11. How is stagnant water dangerous in our environment?

12. Which part of the root system absorbs water and mineral salts for the plant?

13. Which part of a flower produces pollen?

14. How do flowering plants reproduce?

15. Why should drinking water be boiled?

16. Name any weather instrument that is kept in a Stevenson screen.

17. Write ORS in full.

18. Mention any one example of a cereal crop.

19. Give one example of exotic breed of rabbits.

20. What is leaf venation?

21. Name the living organisms that protects itself by coiling.

22. What helps insects to balance when flying in air?

23. Name the form of energy that changes temperature.

24. Which part of an egg holds the yolk in position?

25. Which structure joins bones to bones?

26. Give one example of a dicot.

27. Name the liquid metal in a thermometer.

28. What is a parasite?

29. Which part of a flower attracts pollinators?

30. Why is an exercise book called matter?

31. Write any one disease caused due to poor sanitation.

32. Write one game played by the help of wind.

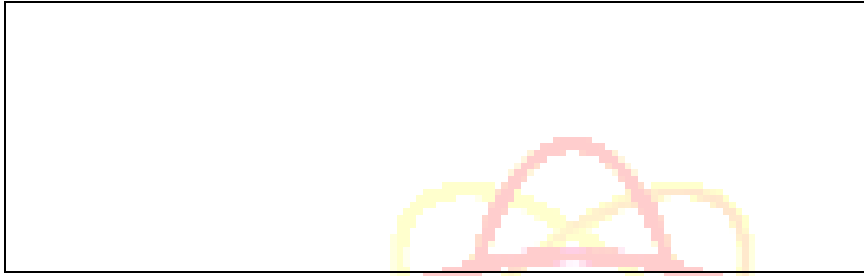
33. Why do some crop farmers put scare crows in their gardens?

34. Mention any one layer of the soil profile.

35. Which element of weather makes murrum roads slippery?

36. State one use of the skin to the human body.

37. In space provided below, draw a parallel leaf venation as a type of leaf venation.



38. How is the District Veterinary officer important to the community?

39. State one reason why crop farmers prune their crops.

40. Give one importance of keeping records on a farm.

SECTION B

41. (a) Which component of air has the biggest and smallest percentage in the atmosphere?

(i) Smallest. _____

(ii) Biggest. _____

(b) Name two examples of rare gases.

(i) _____

(ii) _____

42. (a) What are weeds?

(b) Give two examples of unwanted plants in the garden.

(i) _____

(ii) _____

(c) Mention any one way of controlling weeds in the garden.

43. (a) Mention any two examples of natural changes in the environment.

(i) _____

(ii) _____

(b) Give two effects of people made changes in the environment.

(i) _____

(ii) _____

44. (a) Name the dark region of a shadow.

(b) Write one characteristic of a shadow.

(c) How is a shadow formed?

(d) Mention any one importance of shadows to people.

45. (a) Write down three ways of heat transfer.

(i) _____

(ii) _____

(iii) _____

(b) In which state of matter are molecules far apart?

46. Mention one example of the following:-

(i) Legumes. _____

(ii) Cereals. _____

(iii) Vegetables. _____

(iv) Root crops. _____

47. (a) What is meant by term swarming?

(b) List down three causes of swarming in bees.

(i) _____

(ii) _____

(iii) _____

48. (a) What are insulators?

(b) Write down any three insulators.

(i) _____

(ii) _____

(iii) _____

49. (a) Give two types of food path.

(i) _____

(ii) _____

(b) Mention any two blocks of food path.

(i) _____

(ii) _____

50. (a) What name is given to the hotness or coldness of an object?

(b) What instrument measures human body temperature?

(c) Give any two parts of your body where a thermometer is put,

(i) _____

(ii) _____

51. (a) What is skeleton?

(b) Mention any two functions of a skeleton.

(i) _____

(ii) _____

(c) What joins a muscle to a bone?

52. (a) In the space provide below, draw the following states of gases.

(i) Gases



(ii) Solids

(iii) Liquids

(b) What is melting?

53. (a) Define the following terms as used in science.

(i) Peristalsis.

(ii) Enzymes

(b) Which organs produce the following juices?

(i) Bile juice.

(ii) Saliva.

54. (a) What are leguminous plants?

(b) What name is given to the small round organs found on the roots of the leguminous plants?

(c) Mention the bacteria found in the organ mentioned in 54 (b) above.

(c) State the importance of the bacteria mentioned in 54 (c).

55. Match sensibly:-

List A

- (a) Lack of vitamin A
- (b) Lack of vitamin B₂
- (c) Lack of vitamin C
- (d) Lack of vitamin D

List B

- Scurvy
- Rickets
- Night blindness
- Beriberi
- Pellagra

**PAPER NINE
SECTION A (40 MARKS)**

1. Name the gas used when cooking.

2. What plant system does the plumule make when it grows?

3. Which type of soil has more plant nutrients?

4. Why is a ribcage important to a person?

5. Name the farm practice that helps to keep moisture in the soil.

6. Why do people carryout physical exercises?

7. In which part of the flower does fertilization take place?

8. How are long finger nails dangerous to human health?

9. What is sanitation?

10. How do we call the mixture of different gases?

11. What is a seedling?

12. What does fish use for fishing?

13. Name the sense organ for feeling.

14. What is photosynthesis?

15. Give one example of a plant with weak stem.

16. Name one example of an irregular object.

17. Which disease attacks and affects the ears of rabbits?

18. Why do people rear broilers?

19. Give one use of palm leaves to people.

20. Give one activity one can carry out to care for cuts and wounds.

21. Why do people plant trees in their home compounds?

22. Name the system of a flowering plant which grows above the ground level.

23. Why do farmers spray their crops in the garden?

24. What type of digestion involves the help of enzymes?

25. State one way of controlling the spread of poultry diseases on a farm.

26. Name the vaccine administered to babies through injection soon after birth.

27. How does feeding on foods rich in calcium and phosphorus improve the health of teeth?

28. State one activity carried out at home to control the spread of typhoid.

29. Write the first step to be done when preparing O.R.S locally.

30. Give one example of a vector that uses tall grass as its hiding place.

31. State one method of controlling weeds in a tomato garden.

32. Give one way of managing bad weather conditions.

33. How is a queen excluder important in a modern beehive?

34. Name the solvent that exists in all the three states of matter.

35. Which natural change is controlled by putting lightning conductors on tall buildings?

36. Give any one way a P.7 child can acquire natural immunity.

37. Why are invalids regarded as vulnerable groups of people?

38. Where does digestion of fats and oils begin along the alimentary canal?

39. Give one condition that enables bacteria to multiply easily.

40. Which part of a flower becomes the fruit after fertilization?

SECTION B (60 MARKS)

41. (a) What is a flower?

(b) State one difference between dicotyledonous seeds and monocotyledonous seeds.

(c) Write down one difference between hypogeal germination and epigeal germination.

(d) How are flowers useful at funeral places?

42. (a) What is the difference between germination and fertilization?

(b) Write the three conditions necessary/needed for germination to take place.

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

43. Write 4Fs in full.

- (i) _____ (ii) _____
- (iii) _____ (iv) _____

44. (a) Mention two types of roots you know.

- (i) _____
- (ii) _____

(b) State the difference between climbing stems and creeping stems?

(c) Give any one importance of root hairs to a plant.

45. (a) Name any three childhood immunisable diseases.

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

(b) State the vaccine given to the patient of tuberculosis.

46. (a) Give any one example of a plant with weak stems.

(b) State any two ways in which plants with weak stems climb other plants.

- (i) _____
- (ii) _____

(c) Why do plants with weak stems climb other plants?

47. (a) Give the meaning of the term 'communicable diseases'.

(b) Give any one way through which diseases can be spread.

(c) Mention any one example of a disease spread through body contact.

(d) Mention any one way communicable diseases can be prevented in a home.

48. (a) Name any two disorders of the teeth.

- (i) _____
- (ii) _____
- (b) Write two ways of caring for teeth without using medicine.
- (i) _____
- (ii) _____

49. (a) State the difference between annual crops and perennial crops.

(b) Give one example of each of the following:-

- (i) Perennial crops. _____
- (ii) Annual crops. _____
- (c) Name one method of harvesting perennial crops.

50. (a) Name the breed of goats kept for each of the following:-

- (i) Mohair. _____
- (ii) Milk. _____

(b) Write down any two advantages of rearing exotic breeds of goats.

- (i) _____
- (ii) _____

51. (a) State one function of each of the following organs in the human body.

- (i) Lungs. _____
- (ii) Stomach. _____
- (iii) Brain. _____

(b) Give any one way of caring for internal body organs.

52. (a) What term describes the amount of matter contained in an object?

(b) State the standard unit for measuring the quantity mentioned in 52 (a) above.

(c) Name two containers used in finding volume of an irregular object.

(i) _____

(ii) _____

53. (a) Name two components of a balanced diet.

(i) _____

(ii) _____

(b) Give one importance of feeding on a balanced diet.

(c) State one danger of poor feeding to a family.

54. (a) Mention any two examples of solitary insects.

(i) _____

(ii) _____

(b) State any two dangers of insects to people.

(i) _____

(ii) _____

55. (a) What is meant by the term dehydration?

(b) Write down any two signs of dehydrated child.

(i) _____

(ii) _____

PAPER TEN
SECTION A (40 MARKS)

1. What do we call a young one of a rabbit?

2. Give any one way in which bee keeping is important in controlling poverty.

3. Name the vector that transmits trachoma germs.

4. Give any one way in which the spread of measles disease can be controlled.

5. State one role of a first aider.

6. Which agent of soil erosion causes gullies?

7. Give the difference between energy and work in form of definition.

10. How important are flowers to a plant?

11. Give any one artificial source of sound.

12. What is a family?

13. Differentiate between soil profile and soil.

14. Name the digestive juice that softens and moistens food in the mouth.

15. Apart from collecting pollen, state any other reason why bees move from one flower to another.

16. Why is the volume of a stone measured using displacement method?

17. How is a molar tooth useful to a P.7 child during lunch time?

18. Name the childhood killer disease controlled using BCG vaccine.

19. A boy bought a sugarcane, cassava and Irish potatoes. Which of the above food crops is a stem tuber?

20. How does heat travel through a spoon?

21. Give any one example of a crop pest.

22. Which component of soil helps in germination of seeds?

23. Give any one way a baby benefits from breastfeeding.

24. Why is it dangerous for a boarding school to lack a nurse?

25. How is the spread of malaria similar to that of elephantiasis?

26. State any one danger of dumping waste bottle and polythene bags in water channels.

27. How are roughages useful to our digestion?

28. How is the tongue useful during digestion of food?

29. Why is cotton grouped under annual crops?

30. How are plants important in the formation of rain?

31. Mention the method of soil formation where bacteria are involved.

32. How is litter useful in a poultry house?

33. How is polio vaccine administered to babies at birth?

34. How is regular washing of clothes useful to school children?

35. Give one first aid for body poisoning.

36. Why is maize grouped under annual crops?

37. Which insect pollinates flowers at night?

38. Give one cause of burns to children.

39. Differentiate between epigeal germination and hypogeal germination.

40. What is BCG in full?

SECTION B (60 MARKS)

41. (a) Name the part a mushroom that produces spores.

(b) Mention the food value we get from eating mushrooms.

(c) Apart from a mushroom, write down two examples of fungi.

(i) _____

(ii) _____

42. (a) What are biological change?

(b) Give any two examples of biological change.

(i) _____

(ii) _____

(c) Why is reproduction in animals regarded as a biological change?

43. Maina mixed sugar with water and stirred.

(a) What scientific name is given to:-

(i) The water in the mixture. _____

(ii) The sugar is the mixture. _____

(b) Why did Maina stir the mixture?

(c) How could Maina recover the sugar mixed with water?

44. Match the cattle in List C with their types in List D by completing the table below correctly.

List C

(i) Zebu

(ii) Aberdeen Angus

(iii) Short horn

(iv) Oxen

List D

Dual purpose cattle

Dairy cattle

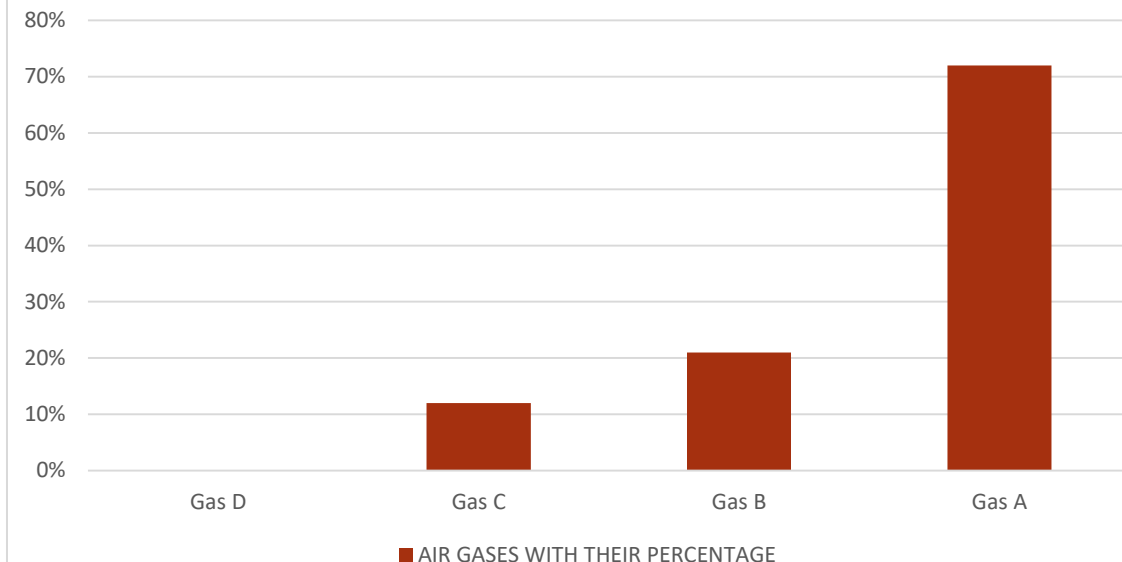
Work cattle

Beef cattle

45. The diagram below shows the composition of air in the atmosphere. Study it carefully and answer the questions that follow.

Way up is down

AIR GASES WITH THEIR PERCENTAGE



(a) Name the gases marked with letter C and D.

D _____

C _____

(b) Which gas is used to plants for phototropism?

(c) State the percentage of gas marked B.

46. (a) Give any two advantages of family planning to the mother.

(i) _____

(ii) _____

(b) State any two natural methods of family planning.

(i) _____

(ii) _____

47. (a) Give any two examples of water impurities.

(i) _____

(ii) _____

(b) State any one effect of the above impurities.

(c) Give any one way in which the above impurities in 47 (b) can be removed from water.

48. (a) Give two permanent types of changes in the environment.

(i) _____

(ii) _____

(b) Give any two effects of manmade changes to the environment.

(i) _____

(ii) _____

49. (a) Write down any two ways of conserving animals.

(i) _____

(ii) _____

(b) State any two reasons for conserving animals in our environment.

(i) _____

(ii) _____

50. (a) Define the term seed dispersal.

(b) State any one importance of seed dispersal to a farmer.

(c) Why are seeds of oranges likely to be dispersed by people?

(d) Apart from people, write any other agent of seed dispersal.

51. (a) Name one accident that is likely to take place at a swimming pool.

(b) Which body organ is greatly damaged by the above accident in 51 (a)?

(c) How can you save the life of a victim who has got the above accident?

(d) Why is such first aid given to the victim who has had such an accident?

52. Below is the table showing different groups of animals. Study it carefully and answer the questions that follows:

A	B	C	D	E
Mammals	Fish	Amphibian	Birds	Molluscs

(a) How are animals in A different from the others in terms of reproduction?

(b) Give any one example of animals in group E.

(c) Why are animals in C able to live on land and in water?

(d) State one feature that makes animals in E different from other animals in the table above.

53. (a) In the male reproductive system, state the function of each of the following parts.

(i) Testis.

(ii) Urethra.

(iii) Epididymis

(b) Give any one disorder of the male reproductive system.

56. (a) Explain the term 'Detrashing'.

(b) Differentiate between thinning and pruning.

(c) Give one advantage of thinning.

(d) Why do farmers carryout harrowing?

55. Complete the table below.

Types of person	Food value
Mathias is a heavy lifter	_____
John has weak bones	_____
Maria has an injured knee	_____
Kiyega wants to grow up like his big brother	_____

PAPER ELEVEN
SECTION A (40 MARKS)

1. What is the difference between sound and an echo?

2. How is poultry a danger to a crop farmer?

3. What is the use of the stigma to a flower?

4. Which vaccine is administered orally?

5. How do arachnids breathe?

6. At what stage is a housefly useful to man?

7. Give a difference between renewable and non renewable resources.

8. How can we control the spread of hookworms?

9. Write ECOSAN in full.

10. Name any one cattle disease.

11. What type of change takes place when a child is born?

12. Name one sex secondary characteristic which is common in both boys and girls.

13. Give the difference between a burn and a scald.

14. What is the difference between an alloy and zero grazing?

15. What term describes the act of giving birth to piglets?

16. How does a string instrument produce sound?

17. In which way is smoking dangerous to pregnant mothers?

18. Why is maize called a fruit?

19. How is BCG administered?

20. Differentiate between a balanced diet and malnutrition.

21. Name the digestion enzyme that clots milk in babies.

22. A stone has a mass of 25kg and the volume of 5cc. Calculate its density.

MAINA

23. Name the special refrigerator where vaccines are kept to maintain their strength.

24. How long does a turkey take to hatch its eggs?

25. State the importance of the villi in the alimentary canal.

26. What is floating?

27. Name the gas which does not support rusting.

28. Which part of a fish helps it to pick sound vibrations in water?

29. At what age do we immunize measles?

30. State one stage of a village food path.

31. How useful is a cob web to a spider?

32. What are fungi?

33. Which fungi are used in the brewing of beer?

34. What are convalescent?

35. Mention one disadvantage of compost manure.

36. Name the organ that produces insulin in the body.

37 Which type of force is found between molecules of the same kind?

38. What type of change takes place when a carcass rots?

39. Give an example of a fungal disease that attacks people.

40. What is the normal body temperature of a human beings?

SECTION B (60 MARKS)

41. (a) Write down any three components of blood.

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

(b) Which component in blood is attacked by sickle cell disease?

42. (a) Heat travels in three ways. Outline them.

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

(b) In which state of matter does heat travel by radiation?

43. (a) Write down two types of feathers you know.

- (i) _____
 - (ii) _____
- (b) Give two examples of birds of prey.

- (i) _____
- (ii) _____

44. (a) What is incubation?

(b) Mention two types of incubation.

- (i) _____
- (ii) _____

(c) Write down one condition needed for eggs to hatch into chicks.

45. (a) Give two examples of fungi.

- (i) _____
 - (ii) _____
- (b) Give two uses of fungi.

- (i) _____
- (ii) _____

46. (a) At what age is measles vaccine administered?

(b) Name the immunization sites for diseases below.

- (i) Tuberculosis. _____
- (ii) Diphtheria. _____

(c) How is DPT administered?

47. (a) Give two factors to consider before starting a livestock farm.

(i) _____

(ii) _____

(b) Name one cattle disease caused by a virus.

(c) How can a government help to control cattle diseases?

48. (a) What is the function of the three small bones found in the middle ear?

(b) Which part of the ear converts sound waves into impulses which are sent to the brain for interpretation?

(c) What is the importance of wax and the hair found in the human ear?

(d) Which part of the ear collects sound waves from the environment?

49. (a) What is a runt in cattle management?

(b) Give one reason why it is important to dehorn cattle.

(c) In what harmful way is foot rot similar to foot and mouth disease?

(d) What causes nagana?

50. (a) What is the difference between town food path and village food path?

(b) What is the first stage in the earning food path?

(c) Write any two blocks in food path.

(i) _____

(ii) _____

51. Match the following correctly.

List A

(i) Arachnid

(ii) Insect

(iii) Myriapod

(iv) Crustacean

List B

Centipede

Crab

Mite

Beetle

52. (a) Write down the three small bones called ossicles found in the middle ear from the smallest to the biggest.

(i) Smallest. _____

(ii) Smaller. _____

(iii) Biggest. _____

(b) State any one disease that can affect the ear.

53. (a) What are crop pests?

(b) List down any two examples of crop pests.

(i) _____

(ii) _____

(c) Mention one way of controlling pests in the garden.

54.(a) Write down any three examples of crop growing practices.

(i) _____

(ii) _____

(iii) _____

(b) Name the garden tool used for transplanting seedlings.

55. (a) To which system of the body does the heart belong?

(b) How is the heart important in the body?

(c) State any two functions of blood in the body.

(i) _____

(ii) _____

PAPER TWELVE

SECTION A (40 MARKS)

1. Give one health habit one should practice to avoid food contamination.

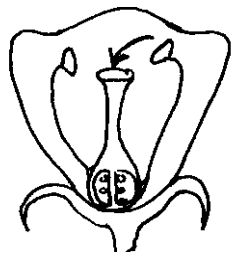
2. Which body organ does Hepatitis affect?

3. Give any one example of a fossil fuel.

4. Besides being vertebrate, how else are birds similar to mammals?

5. Why is it necessary to drain stagnant water around a home?

6. On the diagram below, label with letter x the part that produces pollen grains.



7. Apart from capital, give one other requirement for starting a livestock farm?

8. Identify one accident that requires the use of splints in giving first aid.

9. Give one exotic breed of goat reared for milk production.

10. Name the energy resource obtained from animal dung and urine.

11. State one way of reducing echoes in a hall.

12. Give one reason why we use toothpaste for brushing teeth.

13. Draw a horse shoe magnet in the space provided below.



14. Give one disadvantage of free range system of poultry.
15. Identify one condition in babies that causes dry lips and a sunken soft spot on the head.
16. Why are animals grouped under renewable resources?
17. Which mineral salt is necessary for the formation of red blood cells in people?
18. Apart from melting, state any one other physical change that takes place in the presence of heat.
19. Name the disease that affect both rabbits and poultry.
20. Why does oil settle on top when mixed with water?
21. Give one example of wading bird.
22. In which method of making water clean do you first allow the impurities to settle at the bottom of the container?
23. State the piece of advice given to a person who suffers constipation.
24. Why is maize grouped under monocotyledonous plants?
25. How is the function of the pulmonary artery different from that of other arteries?
26. Which property of air enables you to drink soda using a straw?
27. What name is given to disease caused due to lack of a certain food value in one's diet?
28. State one way in which married couples can avoid HIV/AIDS among themselves.
29. In which way is the use of solar energy good to our environment?
30. Which body system help to remove harmful waste products produced by the body cells?
31. In which way can a donkey be used as an energy resource?
32. What is a joint?
33. Mention one PIASCY message.
34. Why is a pregnant woman said to be a vulnerable person?
35. Which element of PHC promotes quick recovery?

36. Describe one importance of a school health parade.

37. Which component of soil is needed by plants to make food?

38. State one similarity between a housefly and a fresh water snail.

39. Which force enables us to walk?

40. Give one secondary sex characteristic in boys.

SECTION B (60 MARKS)

41. a) Which term refers to a sudden happening that results into injury or death?

- b) Give two examples of (a) above.
i) _____ ii) _____
- c) State any one quality of a good first aider.

42. a) Name one exotic breed of cattle purposely reared for;
i) beef production _____
ii) milk production _____
- b) State one way you can identify a beef breed from a dairy breed.

- c) Apart from beef and milk production, how else are cattle useful to people?

43. a) What is seed dispersal?

- b) Name any two agents of seed dispersal.
i) _____ ii) _____
- c) State one advantage of seed dispersal in the environment.

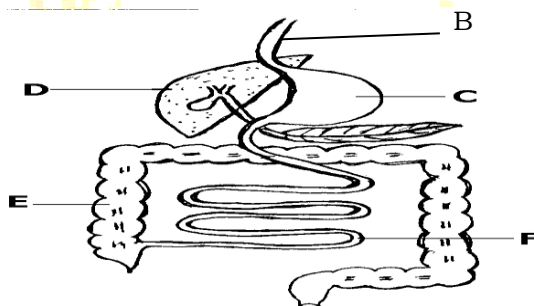
44. The table below shows joint and their position in the human body. Study it and complete it correctly.

Joint	Position in the body
Pivot joint _____	_____
Suture joint _____	shoulder knee _____

45. a) Primary Five pupils were given two objects i.e an apple and a brick. Which method would the pupils apply to find the volume of each.
i) an apple _____
ii) a brick _____
- b) Name any equipment the pupils needed to have to find the volume of an apple.

- c) If the brick had a mass of 120gm and a density of 5gm/cc, what volume did they pupils get?

46. The diagram below shows the alimentary canal of man. Study it carefully and answer questions that follow.



- a) Name the parts labeled D and F.

- i) D _____ ii) F _____
 b) Mention the digestive juice produced by B.

 c) Why does digestion of food end in part F?

 47. a) State any two differences between a housefly and a spider.
 i) _____
 ii) _____
 b) Give one similarity between a housefly and a spider.

 c) Mention one disease spread by a housefly in people.

 48. a) Blood is a liquid tissue found in the body of most animals. Name any one component of blood.

 a) Give at least two functions of blood in the human body.
 i) _____
 ii) _____
 b) In the space below, draw and name the shape of any blood cell.



49. a) Write STD in full

 b) Give any one example of STDs caused by bacteria.

 c) Suggest any two dangers of premarital sex.
 i) _____
 ii) _____
 50. a) State one danger of taking drugs without a medical workers instructional.

 b) Mention any two useful pieces of information written by a medical worker on a prescription sheet given to a patient.
 i) _____ ii) _____
 c) Give any one reason why people take medical drugs.

 51. a) Give one way in which Primary Health Care(PHC) is a promoted in a family.

 b) State one way PHC is promoted by each of the following;
 i) individuals _____
 ii) community _____
 c) Mention one role of a school health committee.

 52. a) What type of change takes place when a knife rust?

 b) Give two conditions necessary for rusting to take place in a knife.
 i) _____ ii) _____
 c) State any one effect of rusting on a knife.

53. Match the source of energy to the type of electricity produced.

Source

flowing water
 hot springs

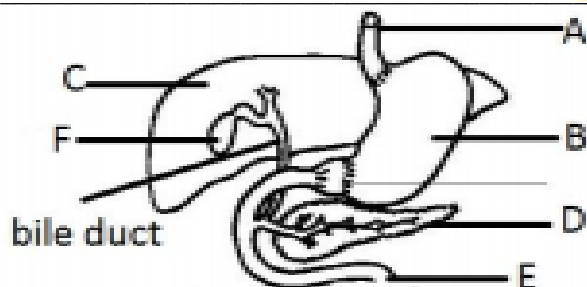
Type of electricity

solar electricity
 thermal electricity

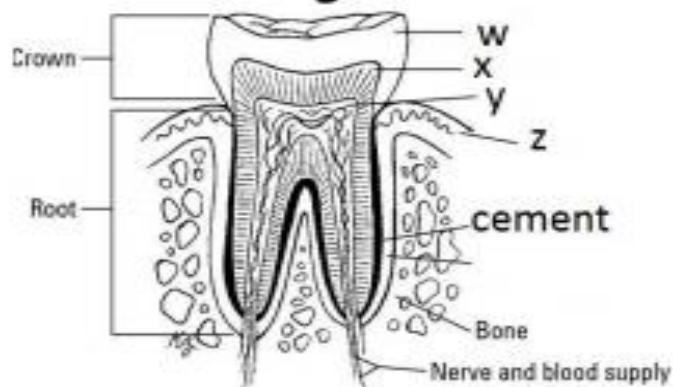
- burning of coal
the sun
- hydro electricity
for thermal electricity
54. a) What is sound? _____
- c) John was hitting a drum 10m away from where Tom was sitting. How was Tom able to hear the sound of the drum? _____
- c) How does a drum produce sound? _____
- d) Give any one natural source of sound. _____
55. Name one example of a disease people are likely to get under the following condition.
- i) poor disposal of faeces _____
- ii) poor feeding _____
- iii) having unprotected sex _____
- iv) poor personal hygiene _____

PAPER THIRTEEN
INTEGRATED SCIENCE DIAGRAM TEST

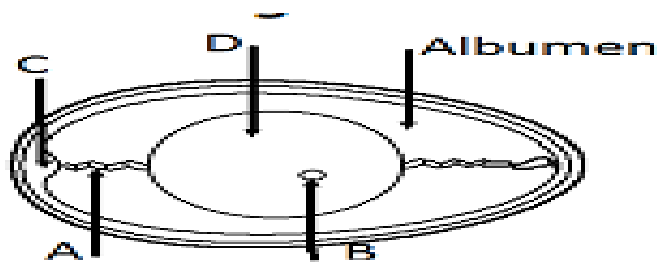
1. a) Define the term digestion
- _____
- _____



- b) Name parts marked with letters
- i) C _____
- ii) E _____
- c) What class of food is digested in part marked B? _____
2. Below is a diagram of a tooth use it to answer questions that follow



- a) Name parts marked
- i) X _____
- ii) Y _____
- b) State the importance of parts marked
- i) W _____
- ii) Z _____
3. Use the diagram below of an egg and answer the questions that follow



a) Name parts marked

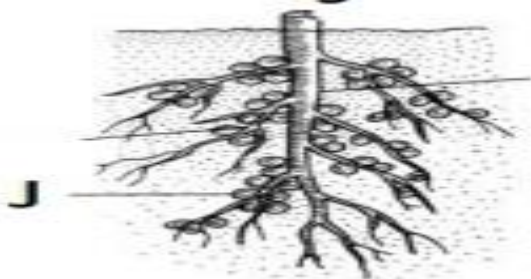
i) A _____

ii) B _____

b) Why is an egg shell porous?

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

4. Below is a diagram of a root



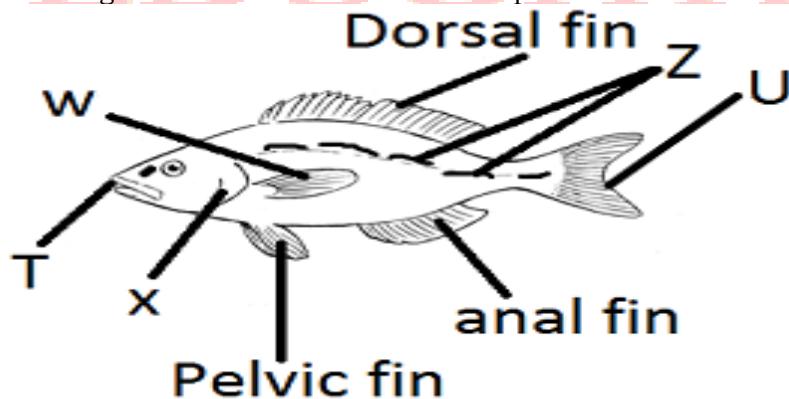
a) Name the above root system

b) Name part marked J

c) State the importance of part marked with letter J

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

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



a) Name parts marked

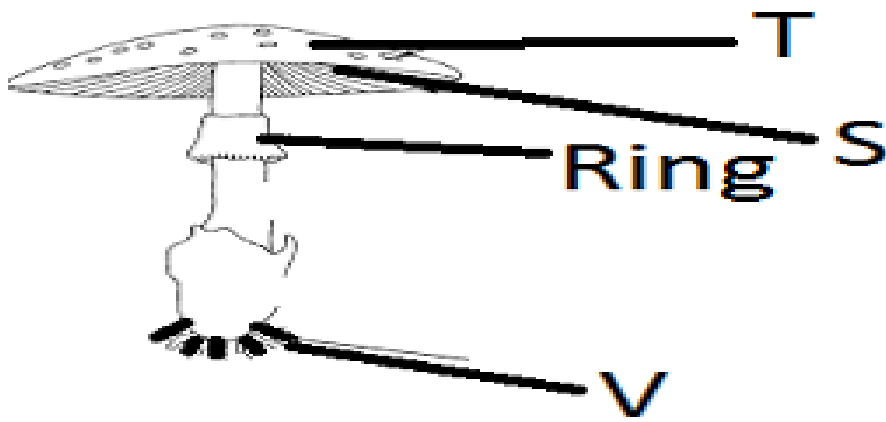
i) W _____

ii) X _____

b) State the function of part marked Z

c) State the importance of scales on a fish

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



a) Name parts marked with letters

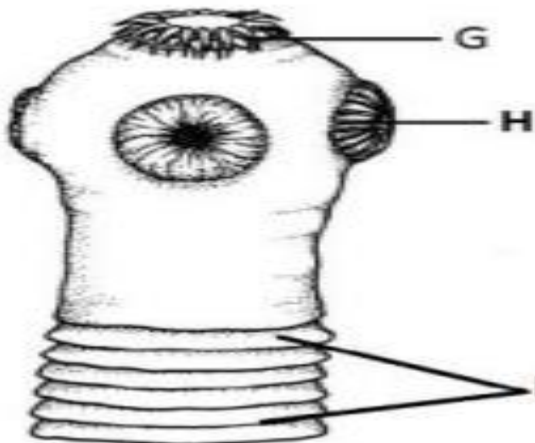
i) S _____

ii) V _____

b) State the function of parts marked T _____

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

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



a) Name parts marked G and I

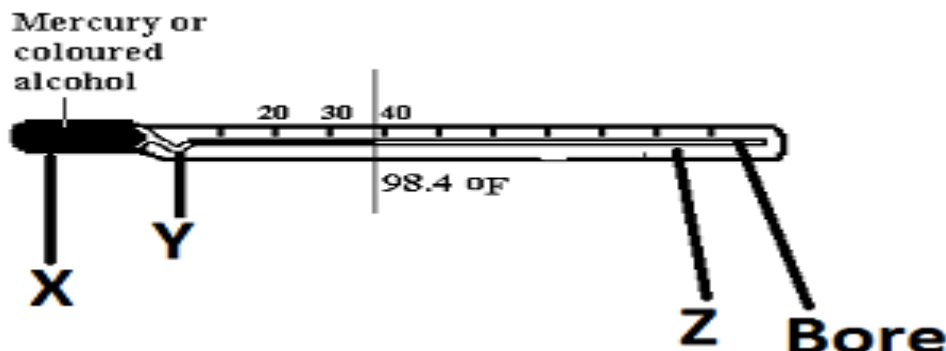
i) G _____

ii) I _____

b) State the function of part marked H _____

c) Name the worm drawn above. _____

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



a) Name parts marked X and Z

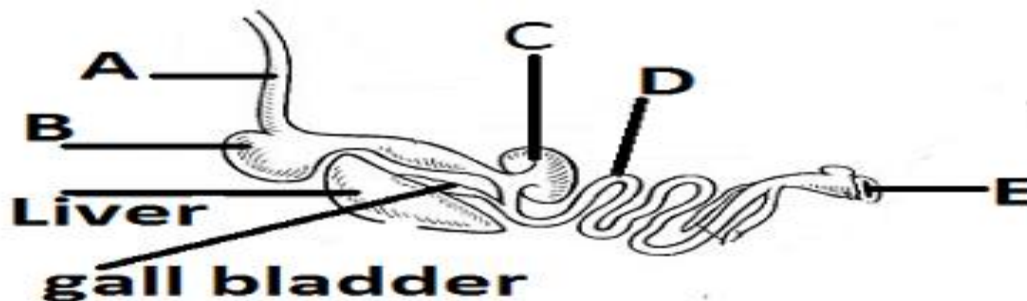
i) X _____

ii) Z _____

b) State the function of part marked Y _____

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

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



a) Name parts marked B and C

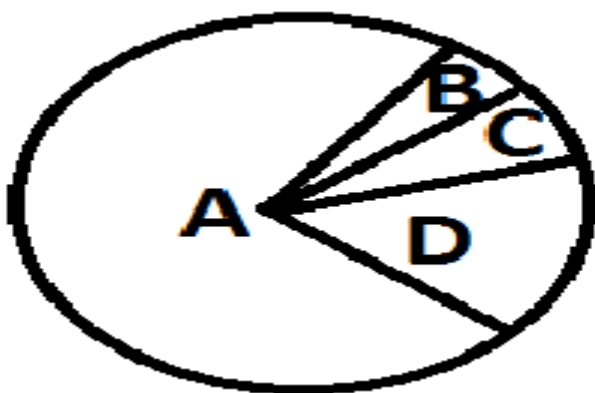
i) B _____ ii) C _____

b) State the importance of parts marked B and D

i) B _____

ii) D _____

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



a) What is air?

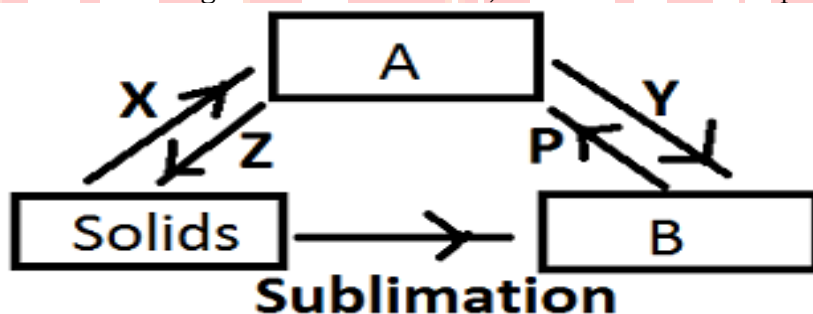
b) Name the components of air marked with letters A and C

i) A _____

ii) C _____

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

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



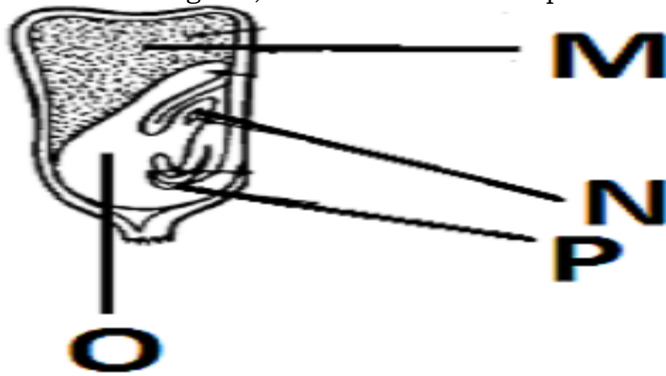
a) Name the state of matter marked with letter A

b) Name the processes marked with letters X and Y

i) X _____ ii) Y _____

c) State any one importance of process marked Z

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



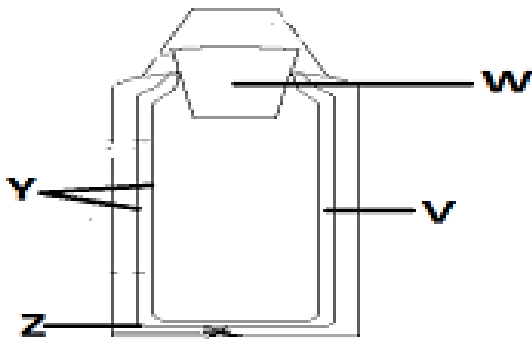
a) Why is a maize grain called a fruit?

b) Name parts marked with letters L and O

i) L _____ ii) O _____

c) State the importance of part marked with letter M

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



a) Name part marked X

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

i) W _____

ii) Y _____

c) State the function of part marked Z.

14. Below is an experiment about soil.



a) What is the experiment about?

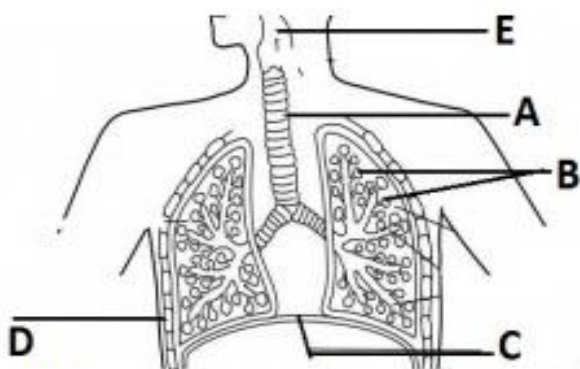
b) Name soil sample marked X and Y

i) X _____

ii) Y _____

c) State the importance of soil sample Z

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



a) Name parts labeled by letters B and C

i) B _____

ii) C _____

b) State the importance of part marked A

c) Name any one immunisable disease of the above system

PAPER FORTTEEN SECTION A

1. Name any one state of matter.

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

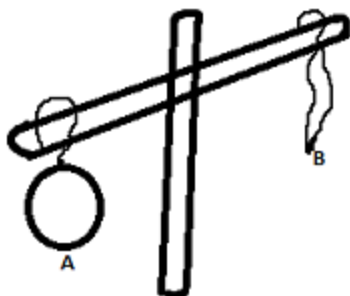
3. Identify any one exotic breed of rabbits.

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 of Primary Health Care?

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

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

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

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

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

21. What causes tooth decay?

22. Give any one importance of feathers to man.

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

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

25. What is rehydration?

26. Why do we boil drinking water?

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

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

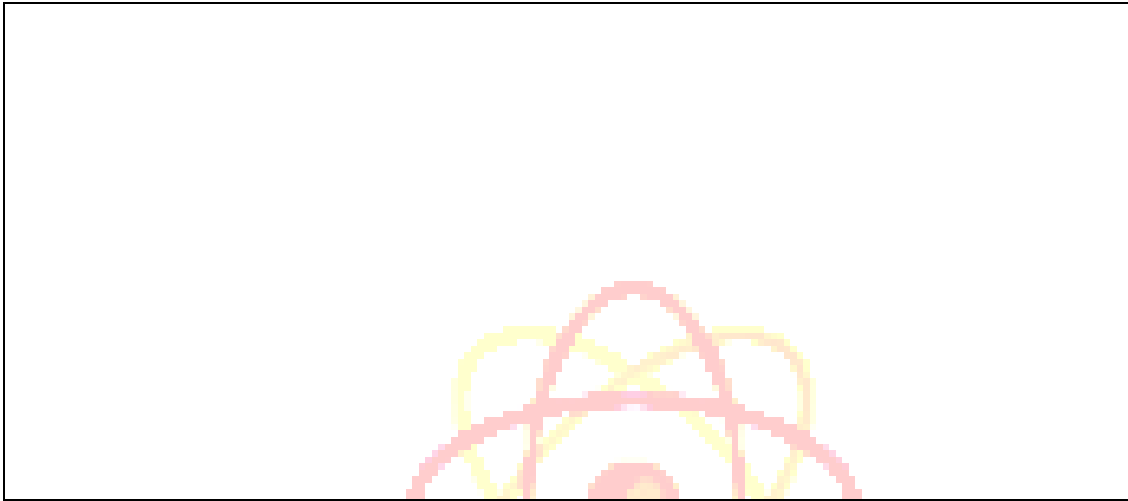
29. Mention any one drug that is commonly abused in your community.

30. Give any one example of amphibians.

31. How is germination similar to sweating?

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

33. Convert 40°C to $^{\circ}\text{F}$



34. Where does digestion of food end in man?

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

36. What causes trachoma?

37. Mention any one natural source of heat.

38. Mention any one product got from sheep.

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

40. How do birds reproduce?

SECTION B

41.a) What are poultry vices?

b) Mention one example of poultry vices.

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

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

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

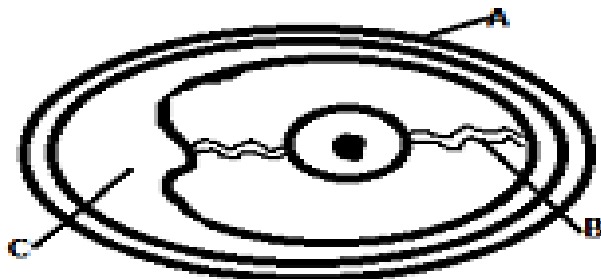
i)

ii)

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

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

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



a) Name parts marked:

B: _____ C: _____

b) Why is part marked A porous?

c) Name the food value obtained from eating eggs.

44.a) What is mulching?

b) State two advantages of mulching.

i) _____

ii) _____

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

45.a) What is immunity?

b) Mention two ways of acquiring immunity.

i) _____

ii) _____

c) Identify the component of blood responsible for immunity.

46.a) Mention any two characteristics of birds.

i) _____

ii) _____

b) Identify any two groups of birds.

i) _____

ii) _____

47.a) What causes malaria?

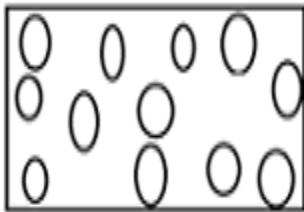
b) State three ways of preventing the spread of malaria in your home.

i) _____

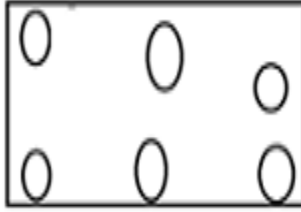
ii) _____

iii) _____

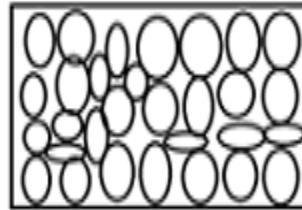
48. The diagrams below show types of soils.



A



B



C

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

A: _____ B: _____

C: _____

b) Give one way soil is formed.

49.a) What is food preservation?

b) List down two methods of preserving food.

i) _____

ii) _____

c) Why should food be preserved?

50.a) Define the term vertebrates.

b) Why is a bat called a mammal?

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

i) _____
ii) _____

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

Vectors

Blackfly
Housefly
Infected dog
Anopheles mosquito

Diseases

Rabies
Malaria
River blindness
Dysentery

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



a) Identify the method of finding volume shown above.

b) Name the containers marked A and B.

A: _____ B: _____

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

53.a) Write ORS in full.

b) Give any two substances used to make ORS.

i) _____ ii) _____

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

54.a) Explain the term soil erosion.

b) Mention one type of soil erosion.

c) Give any two methods of controlling soil erosion.

i) _____

ii) _____

55.a) State the role of 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 FIFTEEN
SECTION A (40 MARKS)**

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

2. How does bush burning lead to soil erosion?

3. How are Chlamydia germs dangerous to humans?

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

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

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



6. Name the process above.

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

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

9. Why is top soil good for crop growing?

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

11. Name one organism that feeds saprophytically.

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

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

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

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



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

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

18. Name any one method of demagnetizing magnets.

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

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

21. How can farmers prevent their bees from swarming?

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

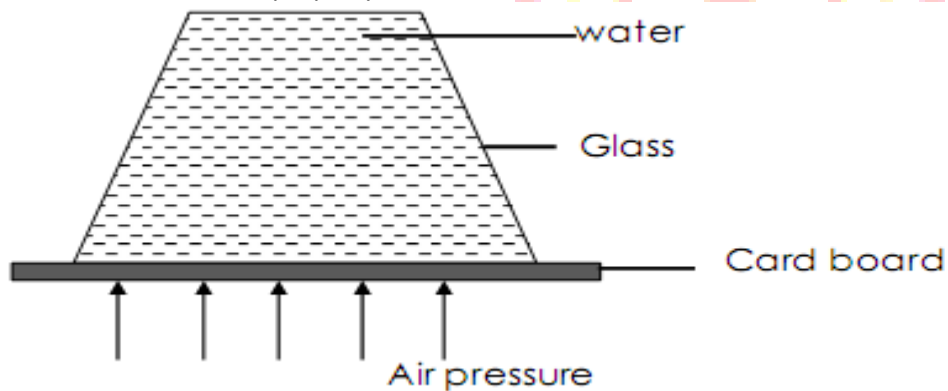
23. Why is it important to maintain good posture when eating food?

24. How are farm records important to farmers?

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

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

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



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

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

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

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

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

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

Way up is down

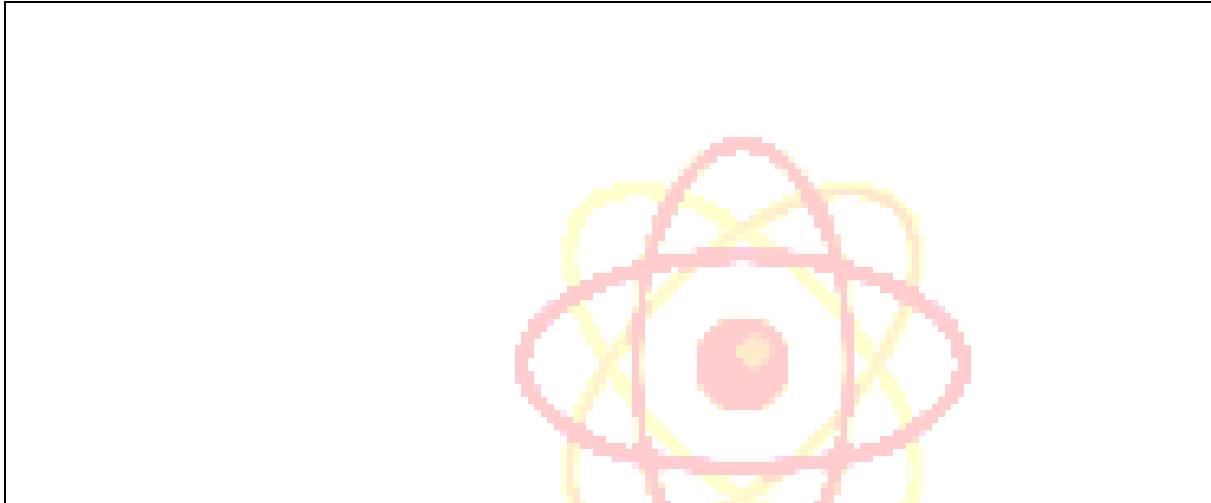
34. How is a moth able to pollinate flowers at night?

moth able to

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

36. Name one viral disease that attacks cassava.

37. In the space provided below, draw a well labeled diagram of a 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) _____

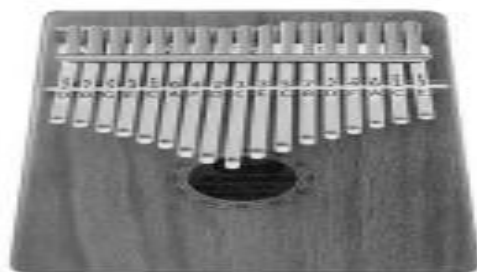
43. a) Cite one use of soil to man.

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.

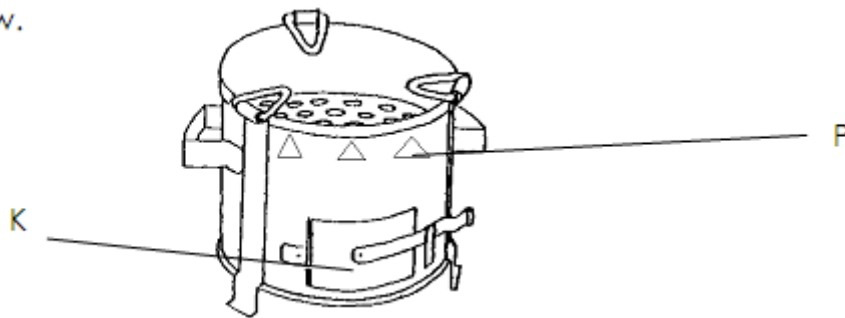
i) _____

ii) _____

c) Why is a pig sty made slanting?

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

DW.



State the roles of holes on the diagram labeled;

i) K _____

ii) P _____

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

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

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

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

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

c) Explain the meaning of the term weaning.

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

Blood platelets

White blood cells

Red blood cells

Transport oxygen

Blood clotting

Body defence

i) Blood platelets _____

ii) White blood cells _____

iii) Red blood cells _____

b) Name any one disease of the circulatory system

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

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

i) _____

ii) _____

c) Suggest one method of harvesting wood.

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

b) Give any two principles of Primary Health Care.

i) _____

ii) _____

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

53. a) What is meant by plant propagation?

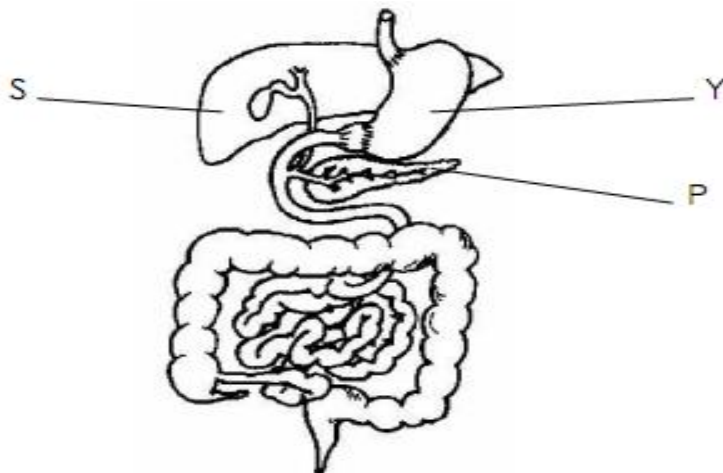
b) Apart from an onion, which other plant is propagated by planting its bulb?

c) Name the methods of propagating the following plants.

i) Pineapples

ii) White yams

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



a) Name part Y.

b) State the function of part labeled S.

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

d) State one disease that attacks part labeled P.

PAPER SIXTEEN SECTION A

1. What is electricity?

2. Name the electricity obtained from flowing water.

3. Identify any one source of direct current electricity.

4. Name the electrolyte used in a wet cell.

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

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

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

8. State one difference between conductors and insulators.

9. Why is distilled water not good for drinking?

10. What are energy resources?

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

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

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

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

15. Define a circuit.

16. Mention any one electrical appliance.

17. State one importance of electricity.

18. Give one advantage of using electricity.

19. How is static electricity different from current electricity?

20. Name one static electricity in nature.

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

22. Identify any one danger of lightning.

23. What is magnetism?

24. Define magnetic material.

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

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

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

28. Why is the earth called a magnet?

29. State the main cause of short circuits.

30. What is a magnet?

31. Mention any one example of a natural fiber.

32. Name any one animal used for ploughing.

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

34. How is heat energy important in rain formation?

35. What is a short circuit?

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

37. Mention one property of magnets.

38. Mention any one example of electrical conductors.

39. What is magnetism?

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

SECTION B

41.a) What are energy resources?

b) Mention two energy resources from plants.

- i. _____
- ii. _____

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

42.a) What is wood conservation?

b) Identify any two ways of conserving wood.

- i. _____
- ii. _____

d) State any advantage of an energy saving stove.

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

i) Water heater:

ii) Electric bulb:

iii) Generator:

iv) Motor:

44.a) Define a fuel.

b) Mention any two examples of wood fuel.

- i. _____
- ii. _____

c) Identify any one example of a fossil fuel.

45. Match items in A with those in B.

A

Thermal energy
Nuclear energy
Wind power
Solar energy

B

Wind
Sun
Coal
Uranium

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. _____

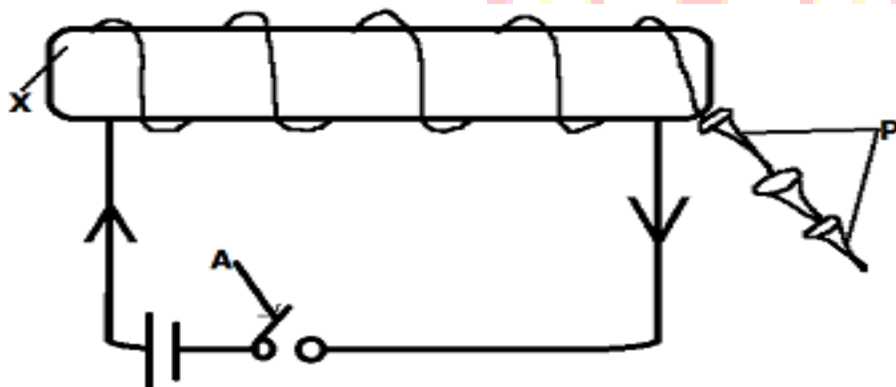
ii. _____

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. _____

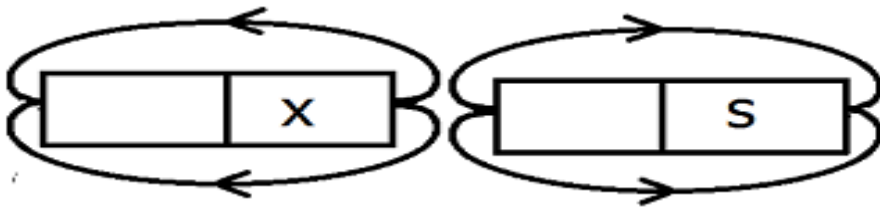
ii. _____

c) 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.

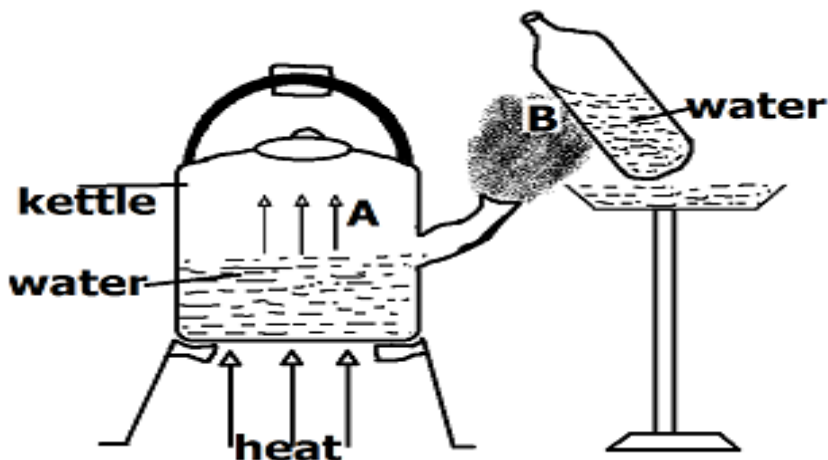
i. _____

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 _____

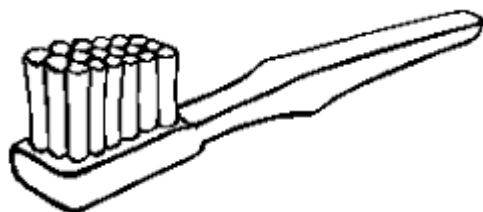
ii) Heat: _____

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

PAPER SEVENTEEN
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

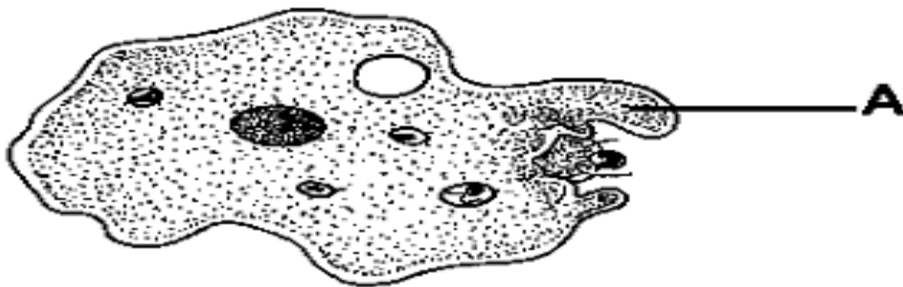
The diagram below shows a tool used to clean our body. Use it to answer question 4.



4. State the use of such a tool.
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?

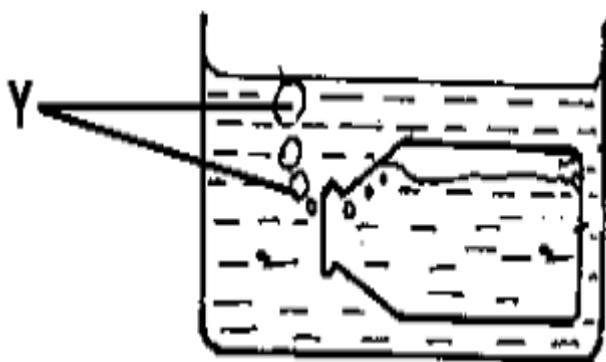
16. Why can't a spider be trapped by its own cobweb?
17. Give any one way AIDS can be spread from one person to another.
18. Mention any one play material made from banana fibres.
19. Write P.H.C in full.

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



20. Name part marked A.
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 a property of air. Use it to answer questions 35 and 36.



35. Name the property of air shown.

36. What does Y represent?

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: _____

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

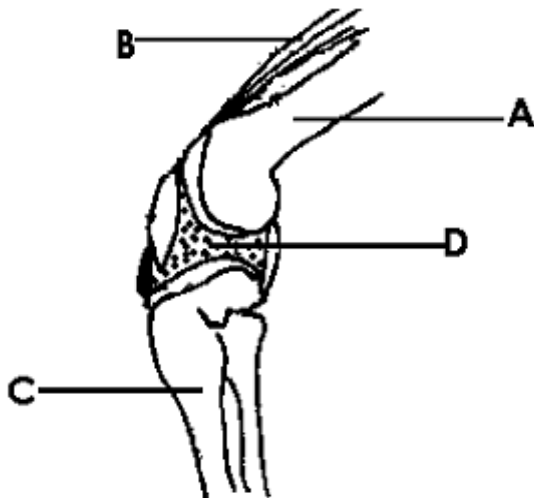
i. _____

ii. _____

(b) Mention any one viral disease of cassava.

(c) Give any one way cassava is harvested.

46. The diagram below is of a joint. Use it to answer questions that follow.



(a) What type of movable joint is shown in the diagram above?

(b) Name part labeled B.

(c) What role does substance D play at a joint?

(d) State one injury that can occur at a joint.

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.

50. The diagram below shows one of the processes that occur in plants. Use it to answer questions that follow.



(a) Name the process shown.

(b) How is part Q formed?

(c) State one factor that affect such a process.

(d) In which way does the process shown benefit the environment?

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 EIGHTEEN
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.

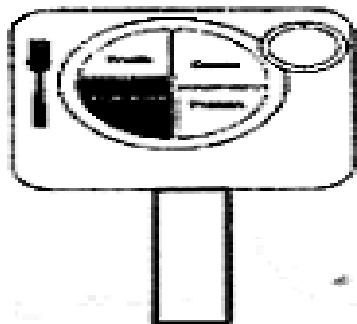
6. How is a guitar as a musical instrument different from the xylophones?

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

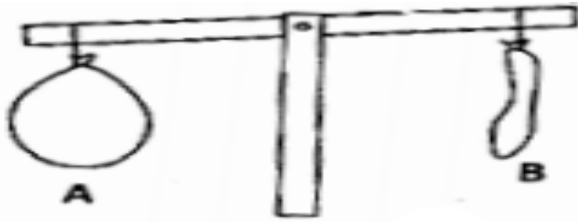


10. What does the message on the sign post encourage people in the school community to do?

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.



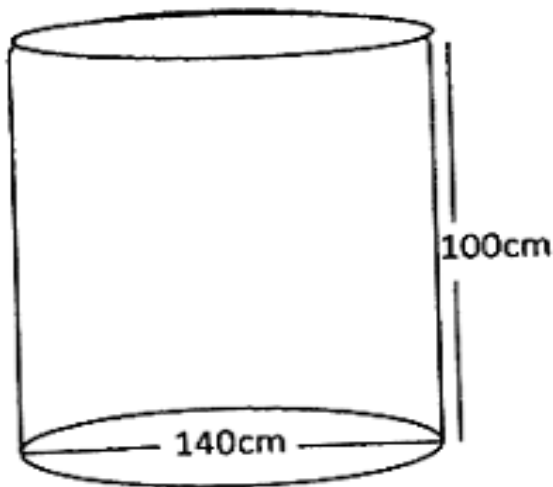
16. Identify any one perennial crop in Uganda.

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



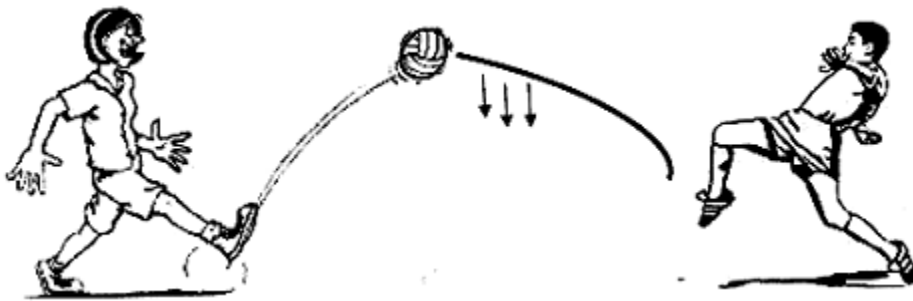
18. How many litres of water can fill the above tank to the brim?

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.

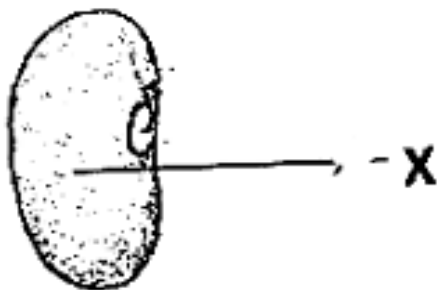


30. Which process causes the water droplets on the outside of the glass?

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 immunisable 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) _____

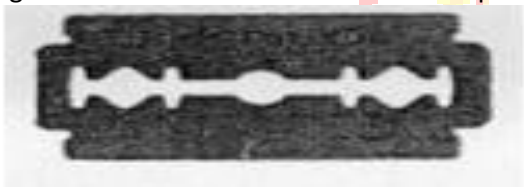
- ii) _____
- b) Identify any one common water impurity.

- 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 behavior

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



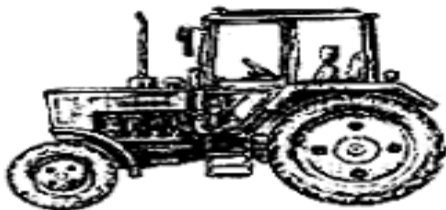
- a) How is the tool above used in keeping ourselves clean?

- 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

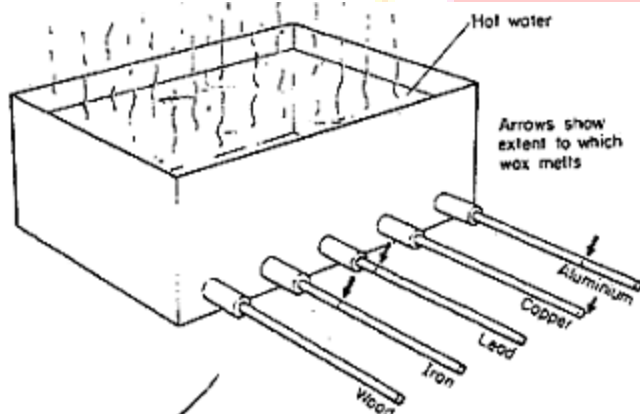
50. a) Give any two domestic animals that neither give us milk nor meat.

- 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 which wax melts.



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) _____

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 NINETEEN
SECTION A

1. Name the sense organ responsible for smelling.

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

3. Name the hardest part of a tooth.

4. Identify any one type of cattle.

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

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

7. Name the breathing organs for mammals.

8. Why is a snail regarded as a vector?

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

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



10. Why is the part marked S porous?

11. State the function of the part marked R.

12. How useful are carbohydrates in our bodies?

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

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

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

16. Suggest one way in which drugs are misused.

17. How do bacteria reproduce?

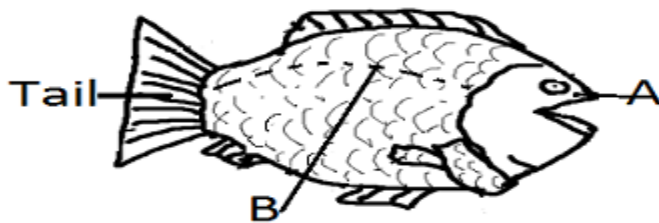
18. Which type of cloud is a clear sign of rainfall?

19. State any one sign of dehydration.

20. Why do we use soap when bathing?

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

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



22. Name part marked B.

23. How useful is part A to a fish?

24. Name the virus that causes AIDS.

25. Why is clay soil best for pottery?

26. Give any one example of a natural fertilizer.

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

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

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

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

31. How useful is blubber to a sea mammal?

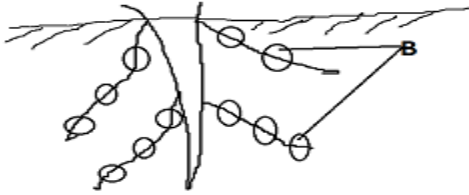
32. Which part of a mushroom produces and stores spores?

33. Give any one characteristic of insects.

34. Identify any one method of making alcohol.

35. Why do some objects sink in water?

36. Name structures marked B.



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

38. Give any one example of an amphibian.

39. What happens to metals when heated?

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

SECTION B

41. a) Differentiate between poultry and poultry keeping.

b) Mention one type of poultry.

d) Suggest two importance of keeping poultry.

i)

ii)

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

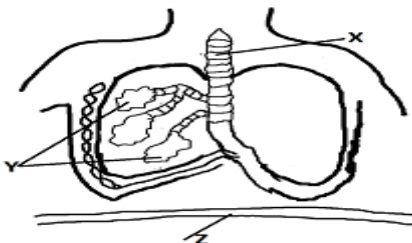
b) Apart from the above component, name one other condition necessary for germination.

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.



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.

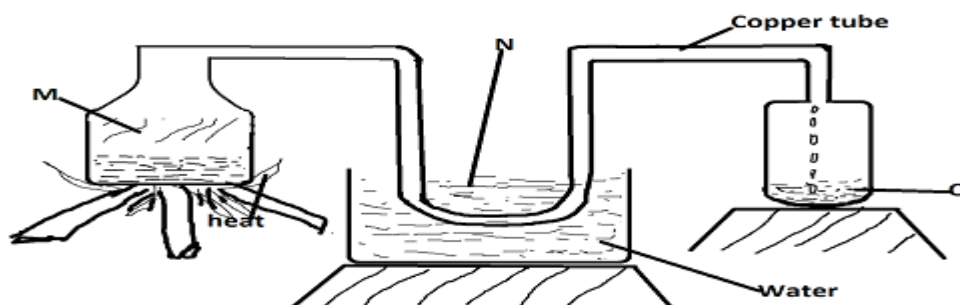
c) State any one importance of bacteria to man.

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.

e) 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.

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 TWENTY
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?

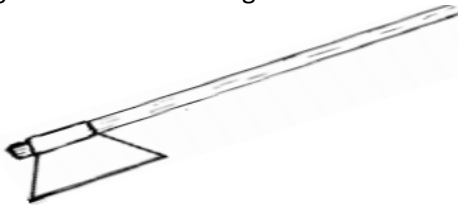
4. Why are perches put in a poultry house?

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.

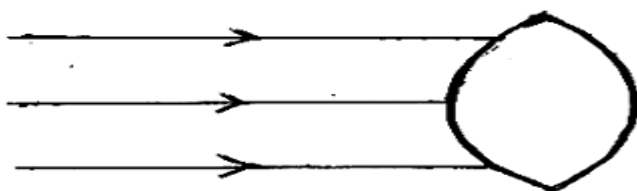
12. A block has a mass of 100g and volume of 25cm³. Find its density.



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 torpid sponging encouraged among children with fever?

SECTION B (60 MARKS)

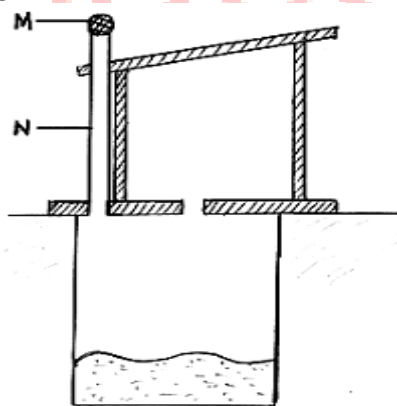
41. a) Why do farmers keep Saanen goats.

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?

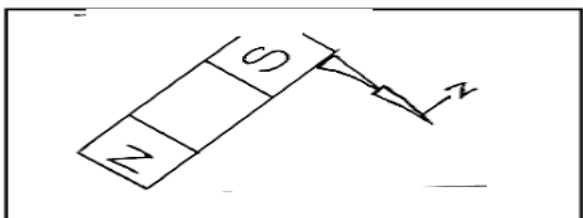
b) Name any two primary sex change in girls.

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

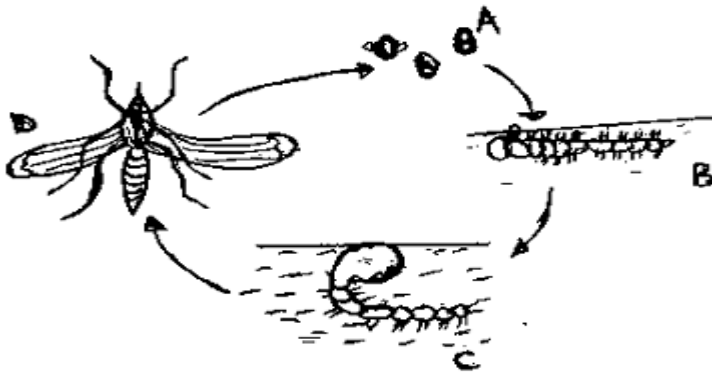
i) first class of levers.

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.

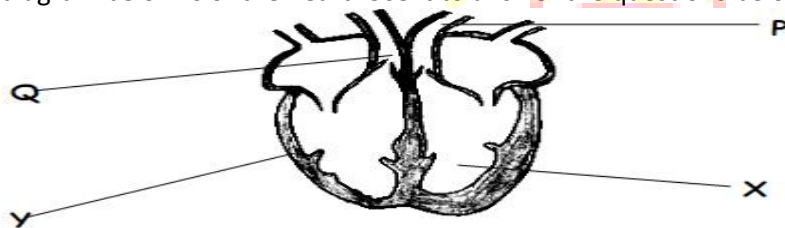
i) _____

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?

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

MAINA PAPER TWENTY ONE SECTION A

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

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

3. State any one cause of soil erosion.

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



4. Name the above stem tuber.

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

6. What are the Standard units for measuring mass?

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

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

9. Why is water called a universal solvent?

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

11. Name the type of energy possessed by a body in motion.
12. Why is a handle of a flat iron made up of plastic?
13. Define the term temperature.
14. How do bacteria reproduce?
15. State any one importance of keeping records on a farm.
16. Why are people encouraged to drink plenty of water during the dry weather?
17. Give any one reason why a goat is called a vertebrate.
18. Give any one way of caring for our skins.
19. Identify any one way a farmer can care for his pregnant sheep.
20. State any one advantage of breastfeeding to a baby.
21. Which deficiency disease does one get when she or he lacks Vitamin A in the body?
22. How do tapeworms enter our bodies?
23. Why is malaria called a communicable disease?
24. Give any one advantage of castrating male animals on a farm.
25. Give any one advantage for giving First Aid to a person with a fractured leg.
26. Why is clay soil the best for making pots?
27. State any one importance of bacteria to the environment.
28. Air is a mixture of gases. Name the gas with the largest percentage in the atmosphere.
29. How are houseflies able to spread germs from one place to another?
30. Give any one characteristic of vertebrates apart from having a backbone.
31. Give the main reason why farmers mulch their gardens.
32. What type of fertilization do birds undergo?
33. Name the body organ responsible for gaseous exchange.
34. Name the vector responsible for the transmission of river blindness.
35. Give any one exotic breed of goats kept in Uganda.
36. State any one way used to apply manure in a garden.

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

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

39. Name the garden tool below.



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

SECTION B

41. a) What are root tubers?

b) Give any one example of root tubers.

c) State any one disease of root tubers.

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

42. a) Name any one type of chicken.

b) Give any one exotic breed of chicken.

c) Why are perches important in a poultry house?

d) Name any one disease that affects poultry.

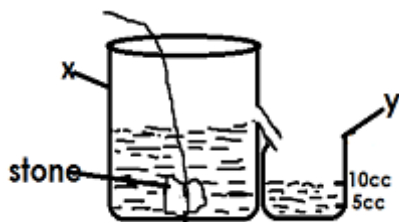
43. a) Name any one substance collected from flowers by bees.

b) Which type of bees is 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: _____

b) 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?

c) 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.

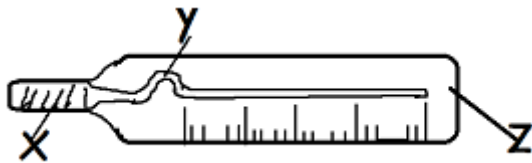
Use the animals below to answer questions (b) and (c)

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.

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

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

PAPER TWENTY TWO 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.

14. Name the kind of food eaten by the vultures.

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.
30. Name the importance of the micropyle on the bean seed.
31. Where on the snake does venom stored?
32. State the danger of leaching of mineral soil 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?

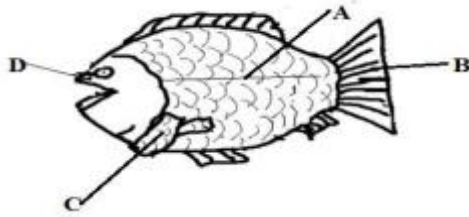


43. (a) Which form energy is produced after vibrations?

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 plants 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.

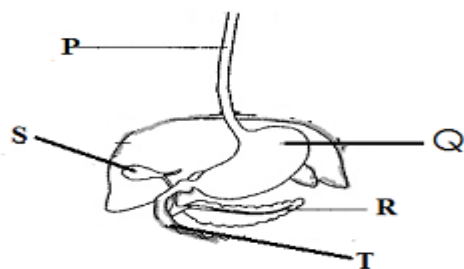
b) State two ways in which a child can acquire immunity.

(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) _____

(ii) _____

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 TWENTY THREE

SECTION A

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

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

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

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

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

6. Identify the type of tooth illustrated below



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

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

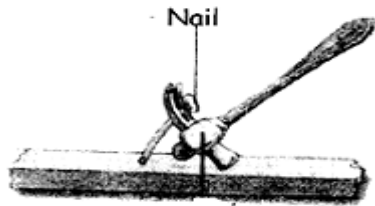
9. What method of heat transfer enables water in a saucepan to boil when put on fire?

10. Briefly explain how humus is formed.

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

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

Use the diagram below to answer questions 13 and 14.



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

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

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

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

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

18. How does smoking lead to lung cancer?

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

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

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

Below is a foot of a bird



22. Which type of foot is shown above?

23. To which group of birds does the above foot belong?
24. State the usefulness of part X to birds with such a foot.
25. Which body organ in humans has the same function as the feelers of a grass hopper?
26. Why are drops of water seen around a bottle which has been removed from a fridge?
27. State the importance of root hairs to a bean plant.
28. Explain a reason why electric wires appear loose on a hot day between poles.
29. On the diagram below, show how magnetic lines of force flow.



30. Where does fertilization in she-goats take place?
31. Identify any one factor to consider when selecting a suitable site.
32. Identify any one urinary tract infections that can easily lead to contraction of HIV/ AIDS.
33. How is dusting of stores using chemical important during storage of grains?
34. State the food deficiency prevented by eating fish.
35. Mention the type of manure got from rabbitary project.
36. How is the small intestine adapted to its role of food absorption?
37. Suggest any one characteristic of seeds dispersed by animals.
38. Why do amphibians lay many eggs?
39. Name the non-metallic material that is used in making the positive terminal of a dry cell.
40. Write down any one non-flowering spore producing plants.

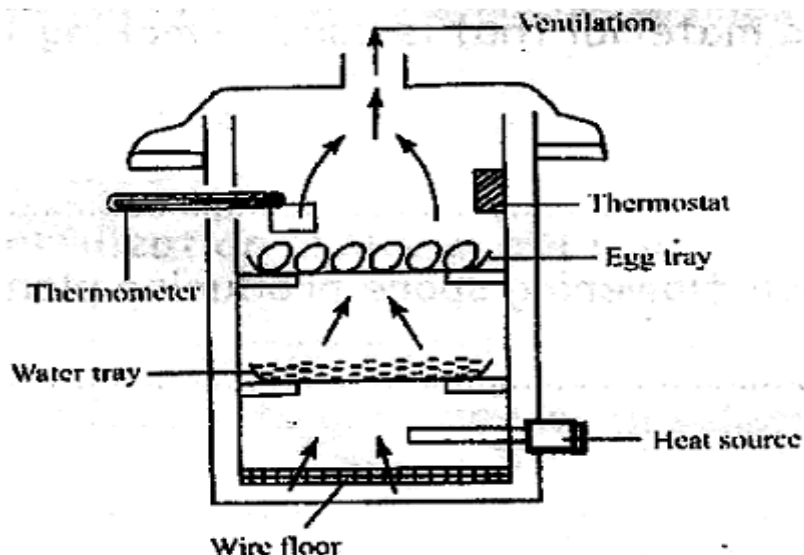
SECTION B

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

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

d) How is the electricity above helpful to a crop farmer?

43. Study the diagram below and answer questions that follow



a) Name the machine show above.

b) What method of hatching eggs uses the machine above?

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

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

44. a) How is a charcoal obtained?

b) During the processing of charcoal, state the reason why each of the following is carried out;

i) covering the wood with grass.

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

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

45. a) What are resources?

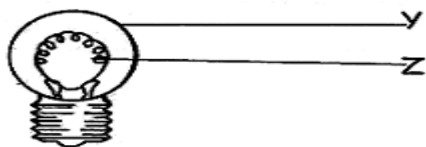
b) Identify any two energy resource found in our environment.

i) _____

ii) _____

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

46. Use the diagram below to answer questions that follow



a) Name part marked Z.

b) Why part is marked z coiled?

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

d) Give the function of part marked Y.

47. a) What is temperature?

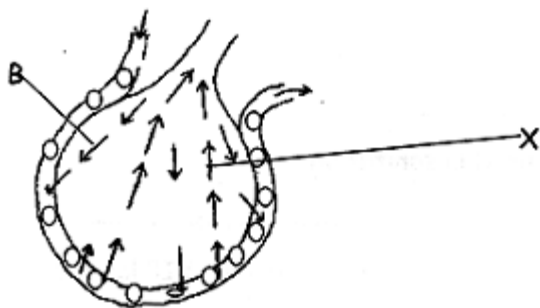
b) How does increase in temperature affect plants?

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

d) Convert 77°F to Celsius scale.



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



a) Identify the structure drawn.

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

c) Name the gas marked X.

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

49. a) Describe the term active smoking.

b) Give one reason why people smoke.

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

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

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

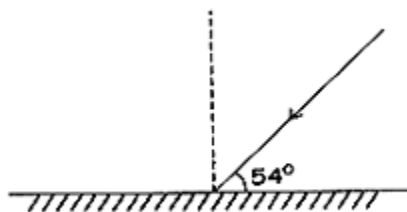
b) State the function of the following parts on a VIP latrine;

i) Vent pipe

ii) Screen

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

51. a) Complete the diagram below



b) Calculate the angle of incidence (2marks)

c) State the law of reflection of light.

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

i) Pitch

ii) Volume

b) Give any one method of storing sound energy

c) How can stored sound be reproduced?

53. Match the following excretory organs with their excretory products

Excretory organs

Liver
Skin
Kidneys
Lungs

excretory products

water vapour
excess sugar
lactic acid
urine

54. a) Describe the term milking.

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

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

d) Give any one method of preserving milk.

55. Study the list of organisms below; caterpillar, hen, cabbage, eagle

a) Which of the above organism is;

i) Primary consumer

ii) Tertiary consumer

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

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

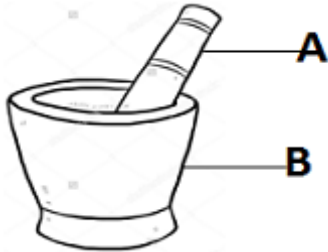
PAPER TWENTY FOUR
SECTION A

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?

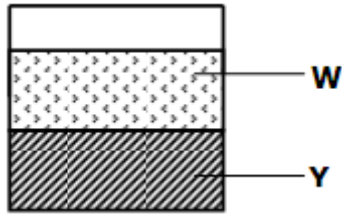
11. Which disease of the eyes is spread by a housefly?

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 anyone 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.

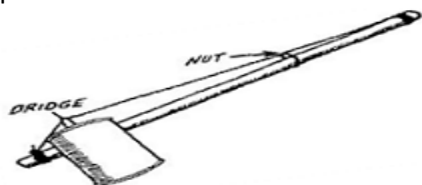
31. Give any one example of a crustacean.

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 in Uganda.



Name the legume store above.

36. As a farmer, how would you protect your metallic tools from getting rusty?
37. Write any one message that may be said to children during a health parade.
38. How has the government of Uganda helped in the control of tuberculosis?
39. To which group of musical instruments does the instrument drawn below belong?



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

SECTION B

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

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

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

(i) Rabbit

(ii) Goat

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

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

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

(i)

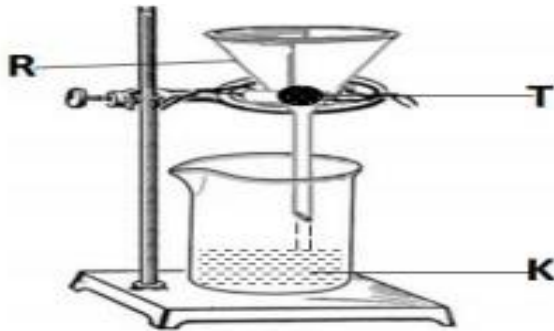
(ii)

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

(i) _____

(ii) _____

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



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

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

T _____

K _____

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

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

(i) Controlling of over population _____

(ii) Controlling of bad body odour _____

(iii) Controlling killer diseases among children _____

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

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



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

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

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

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

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

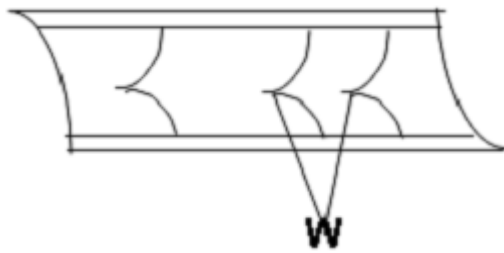
(b) Give the use of the following in first aid management.

(i) Cotton _____

(ii) Bandage _____

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

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



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

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

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

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

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

A

Chameleon

Kangaroo

Whale

Tilapia

B

external fertilization

camouflages for defence

pouch for carrying young ones

layer of fats (blubber)

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.

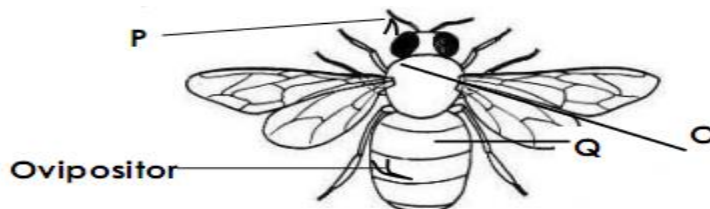
53. a) Why do people feel hotter when dressed in black on hot days than when dressed in white?

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.



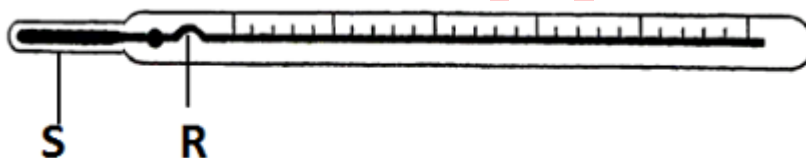
a) Name part marked O and P.

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 TWENTY FIVE

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.

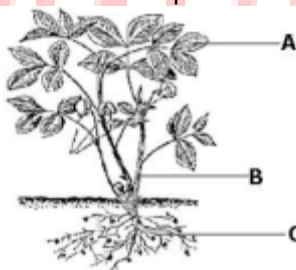
16. State any one way of saving electricity at home.

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.

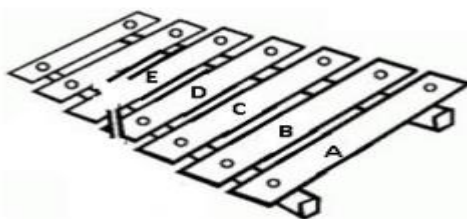
44. (a) Why is oral rehydration solution the best treatment for diarrhoea?

(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) _____

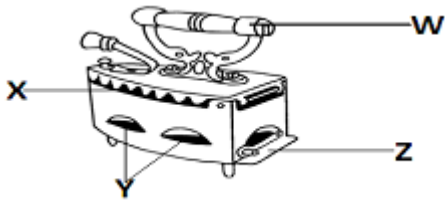
46. (a) Write any one disease that result from active smoking.

(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?

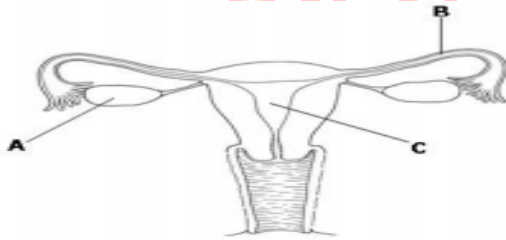
48. (a) What is immunity?

(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

The diagram below shows an experiment carried out on a plant. Use it to answer question 53.



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 TWENTY SIX
SECTION A (40 MARKS)

1. Give one example of a legume.

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

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

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

5. What does a mushroom use to reproduce?

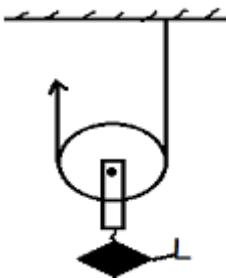
6. What is the danger of not brushing your teeth regularly?
7. Why is copper called a good conductor?
8. How is chlorophyll important in the process of photosynthesis?

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



9. Name an example of a bird with this foot.
10. How useful is the structure of this foot to the bird?
11. How does a vacuum prevent heat loss in a flask?
12. What do we call a condition when a person cannot see objects that are far from him?

The diagram shows a type of a pulley system.



13. How does it help to make work easy?
14. Which substance in the ear prevents dust from entering the organ?
15. Apart from charcoal and timber, name one practice that is a danger to trees.
16. How does a poultry farmer stop cannibalism among his birds?
17. Give an example of a stem tuber.
18. How is the reproduction of a housefly different from that of a grasshopper?
19. Which type of plants has 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?

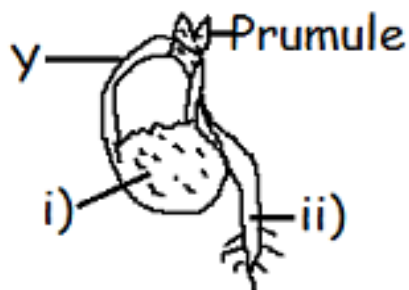
40. How would the seed below be dispersed?



Way up is down

SECTION B (60 MARKS)

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



(a) Name the parts:

i) _____

ii) _____

(b) What is the function of part Y?

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

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

(A) Instrument

Windsock

Rain gauge

Sixth's thermometer

Barometer

(B) Function

atmospheric pressure

strength of wind

temperature

how much it has rained

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

(i) Kwashiorkor: _____

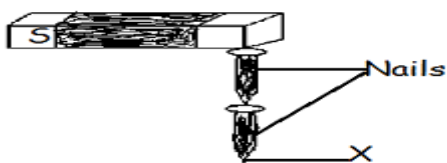
(ii) anaemia: _____

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

i) _____

ii) _____

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



(a) What is the method called?

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

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

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

45. (a) What are energy resources?

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

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

- i) _____
 ii) _____

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

- i) _____
 ii) _____

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

(i) Anthers: _____

(ii) Stigma: _____

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



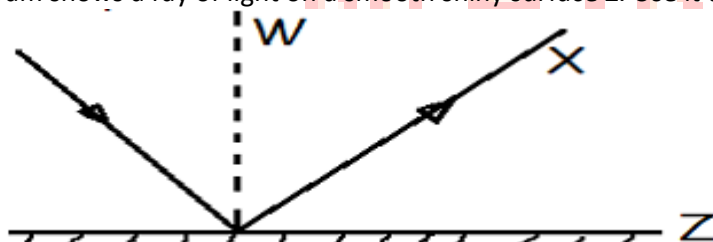
(a) Which type of machine is he using?

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

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

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

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



(a) Name part X and W.

(i) X: _____

(ii) W: _____

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

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

49. (a) What is First Aid? _____

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

i) _____

ii) _____

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

50. (a) What is teenage pregnancy? _____

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

i) _____

ii) _____

(c) How can a school prevent teenage pregnancies?

51. (a) How are the following important to a cattle farmer?
- (i) Castration: _____
- (ii) Deworming; _____
- (b) Give two systems used in grazing cattle.

i) _____

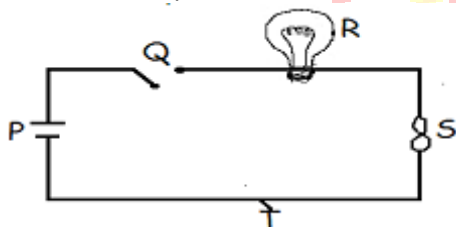
ii) _____

52. (a) Give two ways of making water safe for drinking.
- i) _____
- ii) _____
- (b) Write any two ways by which water can become impure.

i) _____

ii) _____

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



- (a) Name the part T and R.

(i) T: _____

(ii) R: _____

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

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

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



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

(i) Name: _____

(ii) Function: _____

- (b) Where does food go after P?

- (c) Give one way of preventing constipation.

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

- (a) Give two reasons why this was done.

i) _____

ii) _____

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

i) _____

ii) _____

SECTION A

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.

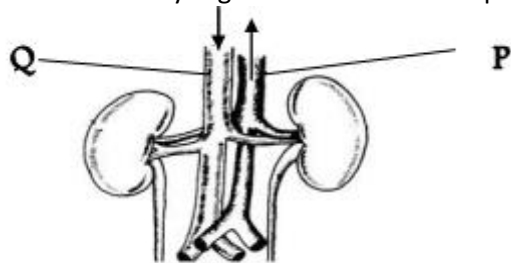


15. To which group of simple machine does the one shown above belong?

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

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

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



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

19. How are pineapples, bananas and sisal propagated?

20. Tomasi 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.

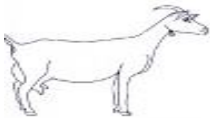
i) _____

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.

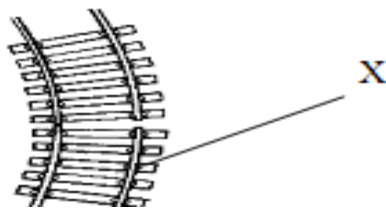
i) _____

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 program me encourage pupils to abstain from sex?

49. a) Explain what happens to each of the following when we breathe out.

i) The ribs _____

ii) The diaphragm _____

b) Name the fluid which reduces friction between the lungs and the ribcage.

c) Give a reason why it is advisable to breathe through the nose.

50. What term describes a condition when food is not properly digested in the body?

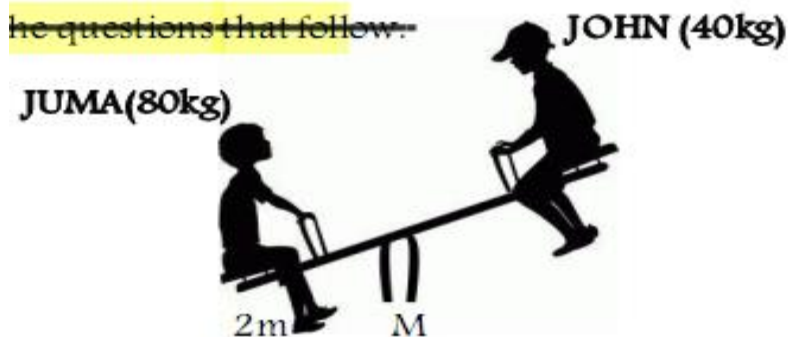
b) Give any two causes of the condition named in (a) above.

i) _____

ii) _____

c) Write one way of preventing the condition named in (a) above.

51. The diagram below shows two boys playing on a see-saw. Study it carefully and answer the questions that follow.



a) In which class of levers is the machine above classified?

b) Name point marked M.

c) How far is John from Juma? (2marks)

52. A cow was found with the following signs:-

Sores in the mouth and hooves, Difficult in moving, frequent salivation

a) State the disease the cow is likely to be suffering from.

b) What causes the disease mentioned in (a) above?

c) Give two ways a farmer can prevent the cow from spreading the infection to other animals on the farm.

i) _____

ii) _____

53. Name the garden tool which helps a crop farmer to transplant seedlings.

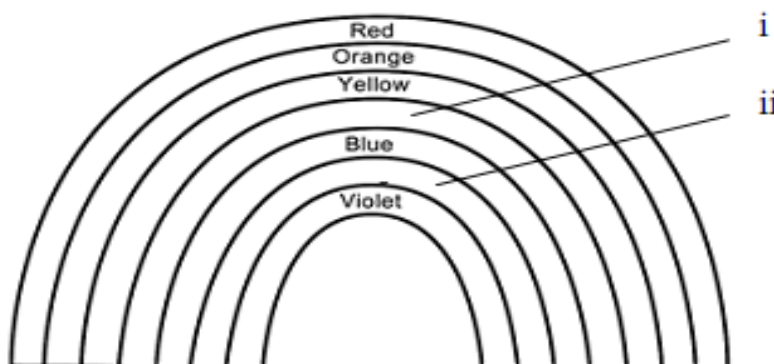
b) Give two reasons why transplanting is carried out in the evening.

i) _____

ii) _____

c) Mention one activity that can be carried out to care for seedlings after transplanting.

54. The diagram below shows a rain bow.



a) Complete it by naming the missing colours

i) _____

- ii) _____
b) Name any two primary colours.
i) _____
ii) _____

55. Name the set of teeth found in babies.

- _____
- b) Which type of teeth is missing in the set of teeth mentioned in (a) above?

- c) Give a reason why babies should be given soft food.

- d) State one way mothers can promote the strong growth of teeth in their children.

**PAPER TWENTY EIGHT
SECTION A**

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 at 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 to the Child-Health Card?

18. Give one way in which plants benefit from animals.

19. Why are minerals grouped under non renewable resources?

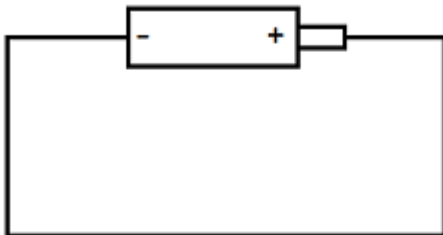
20. State any one use of a skeleton to a monkey.

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. Aaron keeps his left over food well covered. Why does it go bad after some time?

39. State any one way in which echoes are useful to bats.

40. Give one reason why mercury is used in thermometers instead of water.

SECTION B

Questions 41 to 55 carry four marks each.

41. (a) Give any two uses of water in our homes.

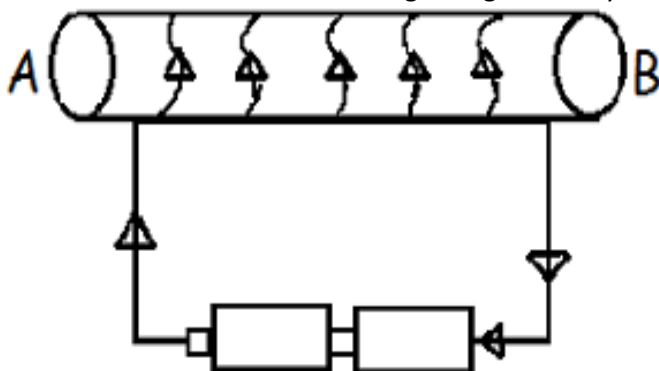
i) _____

ii) _____

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

(c) Give any one way water can be made safe for drinking.

42. The diagram below shows a method of making a magnet. Study it and use it to answer the questions that follow.



(a) Name the method of making a magnet shown in the diagram above.

(b) What pole will the part marked A become?

(c) What would you do to dry cells in order to increase the strength of the magnet?

(d) State any importance of magnets to people.

43. (a) Give one reason why a frog is able to live on land and in water comfortably.

(b) Give one difference between a frog and a toad.

(c) State any one importance of frogs to people.

(d) How does a frog protect its eggs laid in water from being eaten by its enemies? _____

44. Some diseases can be treated without the use of drugs.

(a) Give one example of such a disease.

(b) How would you treat the disease you have named in (a) above?

(c) Give one reason why drugs should be prescribed by health workers before they are used by sick people.

(d) Name any one essential drug.

45. Match items of group A with those of B.

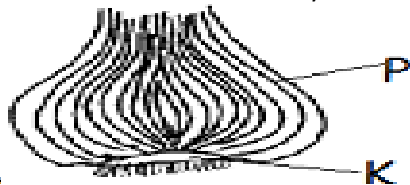
List A

Heart
Kidney
Skin
Lung

List B

carbondioxide
sensory organ
circulation of blood
urine

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) _____

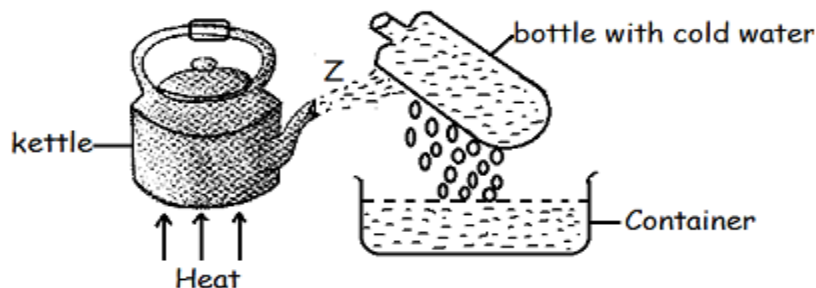
ii) _____

(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.



(a) Name the substance marked Z.

(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 lightning.

i) _____

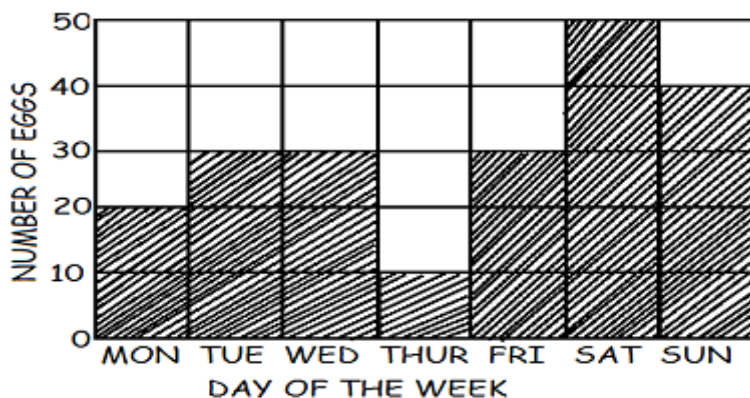
ii) _____

(b) Give any other two ways in which people can protect themselves from dangers of lightning.

i) _____

ii) _____

53. The graph below shows the number of eggs laid daily on Matanda'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.

54. State any three importances of physical exercises to school children.

i) _____

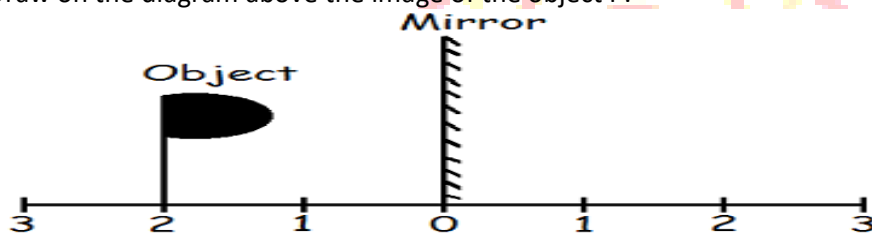
ii) _____

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. 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 TWENTY NINE
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



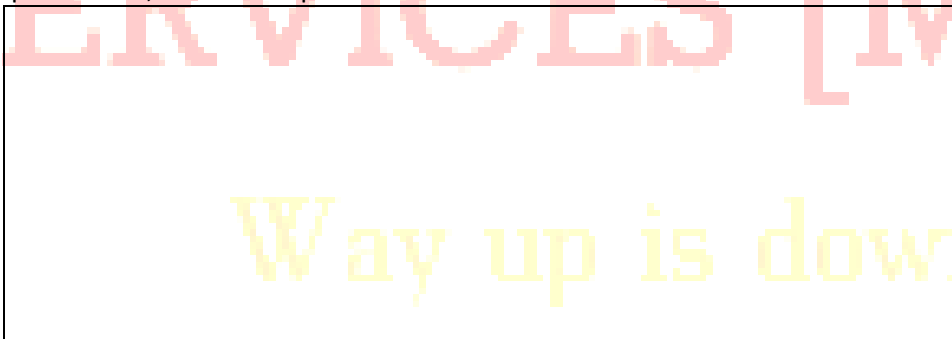
up is down

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.



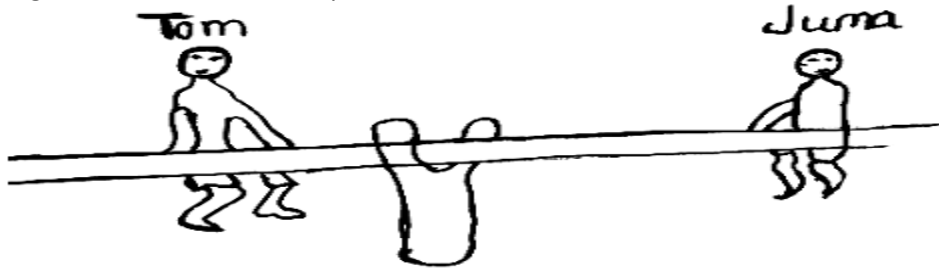
29. Why should babies be breastfed for the first six months of their life?
30. Give one difference between a spider and a cockroach.

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.

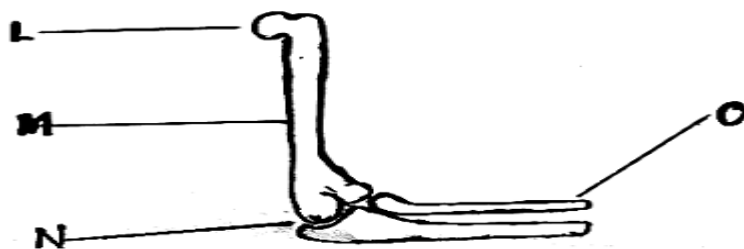
b) State any two ways of improving food security of a community.

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 any 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?

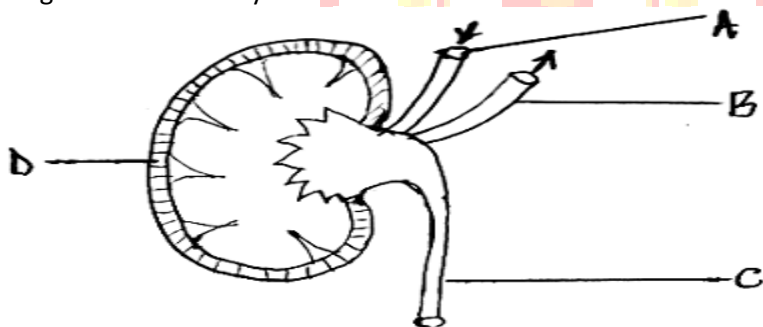
b) Identify any two elements of PHC respected at school.

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?

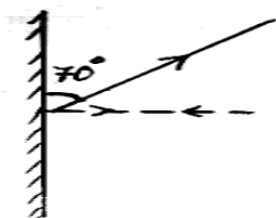
52. a) State any one economic importance of sound energy.

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?

58. Match the following forms of electricity with their sources

List A

Thermal electricity
Hydro electricity
Geothermal electricity
Solar electricity

List B

The sun
Fossil fuels
First flowing water
Steam from hot rocks

PAPER THIRTY SECTION A

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

2. Name the sensory organ that helps a person to detect changes in temperature.

3. In which way does the cutting of trees (deforestation) cause soil erosion?

4. Give one reason as to why pests and diseases are referred to as Blocks in food path.

5. State any one way of proper disposal of rubbish in home.

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

7. How does the study of weather help a farmer?

8. Apart from tasting, give any other role of the tongue during digestion.

9. Which component of soil is used by plants to make their own food?

Use the diagram of a human tooth below and answer the questions that follow.



10. How useful is the type of tooth above?

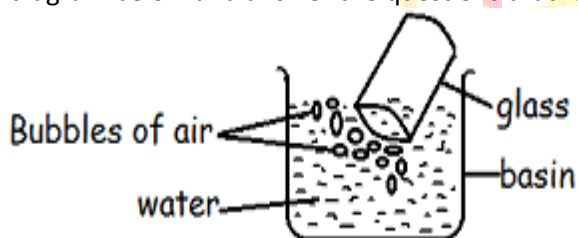
11. Identify any one way in which trees are able to reduce air pollution in the environment.

12. Why do most plants in desert areas have thorns?

13. Name any one by product of respiration process.

14. Which structures enable the trachea to remain open all the time?

15. Study the diagram below and answer the questions that follow.



What does the experiment above prove?

16. Why is the re-cycling an important process in the conservation of resource?

17. How is sun important in the process of rain cycle?

18. State the compass direction in which a freely suspended magnet will rest.

19. How does the human body cool itself in a hot day?

20. What health danger comes as a result of someone not completing his medical dose?

21. Name the type of mosquito that spread elephantiasis to humans.

22. Why are ventilators put at a higher level above windows and doors in a house?

23. State one reason why a crop farmer should include beans in his crop rotation? _____
24. Give one major reason as to why one should wash his hands with soap after visiting a latrine.

25. What do arachnids use for breathing?

26. How does leaching reduce soil fertility?

27. Name the type of blood cell which is affected by malaria parasites in the body.

28. Give one use of water absorbed by seeds during germination.

29. Why is it important for married couple to be treated together if they have got syphilis?

30. How useful is frictional force to a P.7 candidate during his examinations?

31. Name any one type of cattle kept by farmers in Uganda.

32. Which disease is characterized by a sunken soft spot on a baby's head (fontanelle)?

33. Name the final digested food products from eating proteins to the body.

34. Give one reason as to why water is not advisable to put out petrol fire.

Study the diagram of a flower and use it to answer the question about it.



35. What is the use of the part marked "M" to a flower?

36. Give one reason as to why filtrated water is not necessarily safe for drinking?

37. How useful is a stretcher when giving first aid?

38. State any one characteristic of fruits and seeds dispersed by animals.

39. Give any one reason as to why sugarcane is not considered as a stem tuber yet it stores food in its stem.

40. Name any one diarrheal disease.

SECTION B

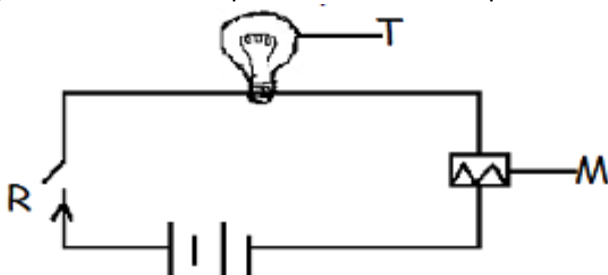
41. (a) Give any one way in which Primary Health Care (PHC) is important to the community.

(b) State the element of PHC which is promoted by each of the following activities.

(i) Cleaning water sources:

(ii) Eating a balanced diet meal:

42. Use the diagram below of a simple circuit to answer questions that follow.



(a) How is the function of the part marked M similar to that of R?

(b) Name the form of energy produced at part marked T when the circuit is completed.

(c) Calculate the voltage used in the circuit above. (2mks)

43. (a) Give the difference between reflection and refraction.

(b) Identify any two characteristics of image formed by plane mirrors.

i) _____

ii) _____

(c) How is reflection of light useful in our daily life?

44. (a) What is respiration?

(b) How are air sacs (Alveoli) adapted for gaseous exchange?

(c) Give any one respiration disease caused by bacteria.

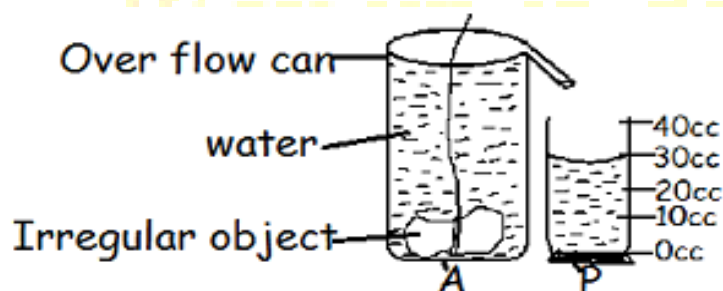
(d) State any one way how one can maintain his respiratory system in good working condition.

45. (a) What is immunity?

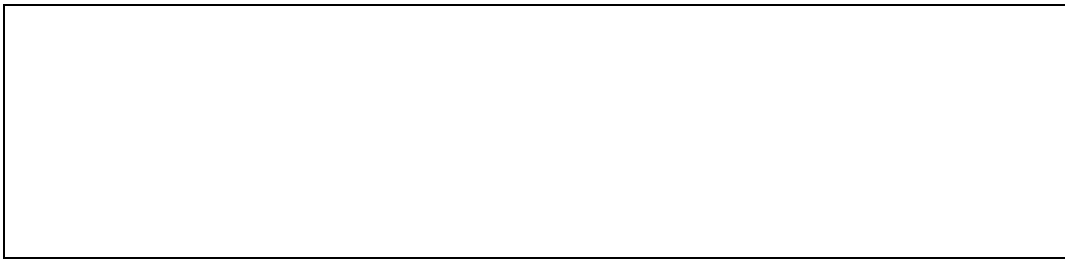
(b) Study and complete the immunization table below.

Disease	Vaccine	Immunization site
Polio	Polio vaccine	i)
Tuberculosis	BCG	ii)
Diphtheria	iii)	Left upper thigh

46. An irregular object was lowered into an overflow can A containing water. The water it displaced was collected in container B as shown.



(a) What is the volume of the irregular object above?



(b) Calculate the density of the irregular object if its mass is 90g. (2mks)



(c) Name container marked P.

47. (a) Which type of change takes place when an iron rusts?

(b) Give two conditions necessary for rusting to take place on an iron tool.

i) _____

ii) _____

(c) State any one effect of rusting on iron tools.

48. (a) What is environmental degradation?

(b) Identify any two natural causes of environmental degradation.

i) _____

ii) _____

(c) Give any one human activity that cause environmental degradation.

49. In the diagram below W,X and Y show the stages of germination of a seed. Study and use it to answer the questions that follow.



(a) Name the part marked Q.

(b) How is part marked Q useful to the seedling at the stage marked X?

(c) Why is the part marked Q useless at stage Y?

(d) Which type of germination is shown by the above seeds?

50. (a) Differentiate between poultry and poultry keeping.

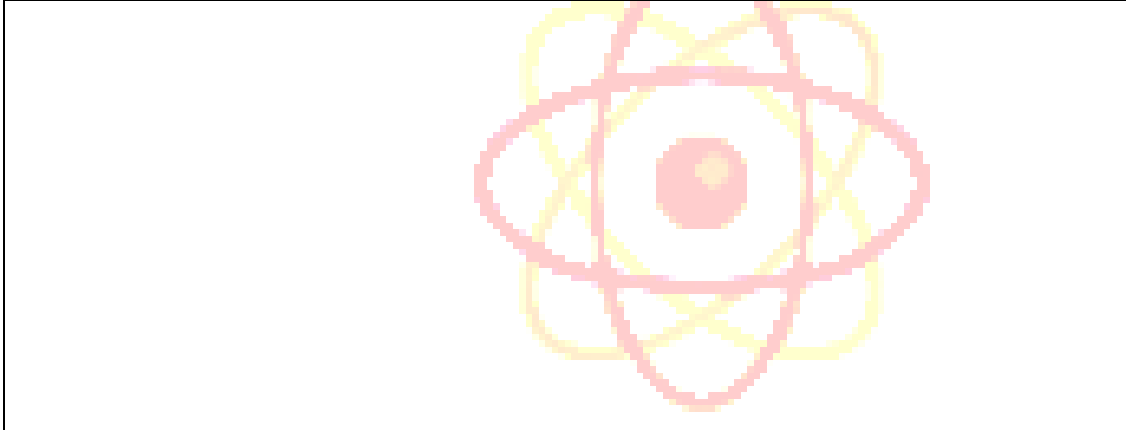
(b) Name any two vices in poultry which can be controlled by debeaking.

- i) _____
- ii) _____

(c) Give any one disease that attacks poultry.

51. (a) What is the standard unit for measuring force?

(b) A man weighs 60kg. He sits 1.5metres from the fulcrum (pivot) of a see- saw. How far from the fulcrum will a boy whose weight is 30kg, sit in order to balance up with the man in the see-saw. (3mks)



52. (a) What is the importance of a school garden to school children?

(b) Identify two factors to consider when choosing an area for a school garden.

- i) _____
- ii) _____

(c) Name any one framing practice that can be done in a school garden.

53. (a) What is swarming?

(b) Give two reasons as to why people keep bees.

- i) _____
- ii) _____

(c) State any one way how bees can be dangerous to human beings.

54. (a) What is the difference between transparent and translucent objects?

(b) Give any one example of opaque object.

(c) Name the type of lens used to correct long sightedness.

(d) Which part of the eye has the same function as film in the lens camera?

55. (a) Give the difference between a predator and a scavenger.

(b) In which way are scavengers useful in the environment?

(c) Name any two examples of scavenger birds.

i) _____

ii) _____

PAPER THIRTY ONE

SECTION A

1. Besides the tooth brushes and tooth paste, name one item used to clean human teeth.

2. Why is carbon dioxide used in fire extinguishers?

3. State any one example of an animal vector.

4. Suggest any one importance of soil to a rat.

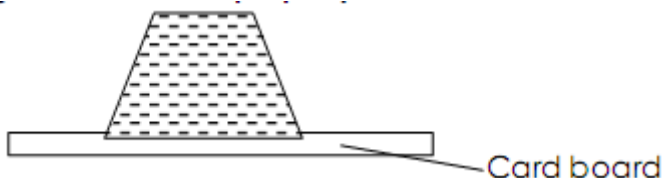
5. How are Chlamydia germs dangerous to people?

6. Give one reason why food is cooked.

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

8. Why do people urinate frequently on cold days than on hot days?

The diagram below is of property of air. Use it to answer questions 9 and 10.



9. Why didn't the cardboard paper fall immediately?

10. Suggest any one application of the above property of air.

11. What causes the noise produced by a class door when opening and closing it?

12. Fish, reptiles and birds have backbones and lay eggs. Name any other characteristic that is common to all of them.

13. What happens to water when it cools below 0° centigrade?

14. Give any one sign which shows that a cow is suffering from mastitis.

15. Why do house flies lay eggs in decaying matter like faeces?

16. Mention any function of the kidney apart from blood filtration.

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

18. How does heat promote personal hygiene?

The diagram below shows a magnet. Use it to answer questions 19 and 20.



19. Name the pole marked with letter B.

20. Write down the property of magnets in the above diagram.

21. Apart from leaving cooked food uncovered, how else can cooked food be contaminated?

22. What is a strain?

23. State the role of yeast in the production of alcohol.

24. Give any one use of essential drugs to humans.

25. Sande 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?

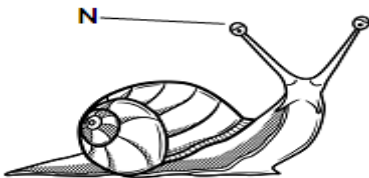
28. Give any one danger of a dirty body to an individual.

29. Suggest any one way of controlling weeds in a garden.

30. Maina crushed garlic and Wandiba in the next room could smell the garlic. What process enabled the smell of garlic to reach Wandiba 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 Mbale district.

35. Name the disease that deforms the red blood cells.

36. Give any one use of ventilators on a house.

37. State the role of a drone in a bee hive.

38. Identify the best way of controlling 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

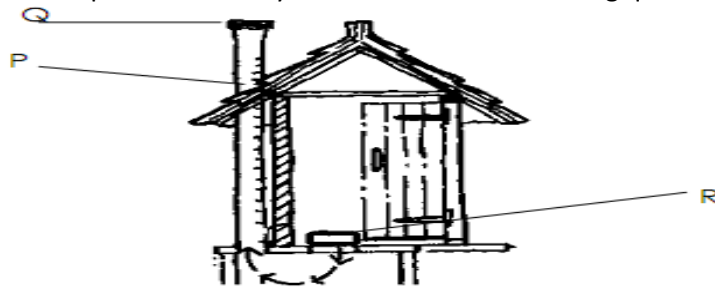
ii) Drug prescription

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.

e) Give any one viral infection that affects the human skin.

45 .a) Give any two ways through which diseases are spread in cattle.

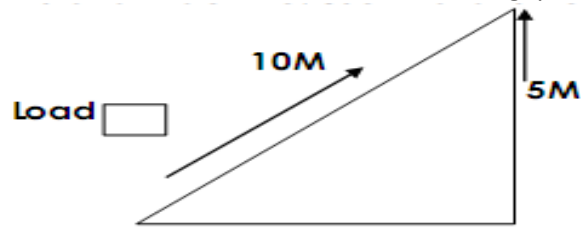
i)

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

f) 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?

g) Give one reason why we give first aid.

50. a) Name one practice which increase the spread of bilharzia.

b) Which vector is important in the spread of bilharzias?

c) Give two ways of preventing the spread of bilharzia.

i) _____

ii) _____

51. Match the items in List A to those in list B correctly as used at a weather station.

A

Wind vane
Barometer
Rain gauge
Anemometer

B

amount of rain
speed of wind
amount of air pressure
direction of wind

52. 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) _____

(b) Give any two differences between arachnids and insects.

i) _____

ii) _____

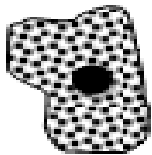
52.a) Besides hearing, mention any other function of the human ear.

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.

g) 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 THIRTY TWO
SECTION A (40 MARKS)

1. Name any one natural source of heat energy.

2. Identify the enzyme responsible for digestion of food in the mouth.

3. How is friction an important force to a crop farmer?

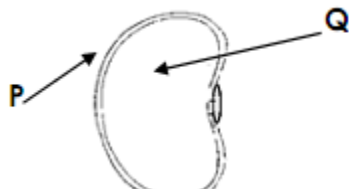
4. In one sentence, give the meaning of truancy

5. Suggest the importance of blubber to cetaceans.

6. How is black jack seed propagated?

7. Give one way a crop farmer can make use of radiation process.

Use the diagram below to answer questions 8 and 9.



8. Name part P of the above seed.

9. State the role of part Q to a seed during germination.

10. Where in a rat does fertilization take place?

11. Identify any one way plants in deserts regulate the rate of transpiration.

12. Which part of an egg develops into a chick during incubation?

13. Why are burns and scalds put under cold running water?

14. How does intra-uterine device promote child spacing?

15. Which disease is spread by rat fleas?

16. How is black jack seed adapted to its mode of dispersal?

17. How useful are brightly coloured petals to a flower of a plant?

18. Give the importance of bile juice in the process of digestion.

19. How is reflection of light important to drivers on the road?

20. Why do crawling babies commonly suffer from diarrhea?

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

22. Identify any condition that favours rusting of iron materials.

Use the diagram below to answer questions 23 and 24



23. Mention one group of birds with such a foot.

24. Suggest the importance of part A to such birds.

25. Give any one type of cattle kept in Uganda.

26. State any one way of protecting water sources from contamination.

27. How do solids allow heat transfer by conduction?

28. Give one way how crop growing can depend on cattle keeping.

29. Suggest any one way mammals can care for their young one.

30. Identify one danger that may result from poor functioning of the kidneys.

31. How does a VIP latrine contribute towards the control of communicable diseases?

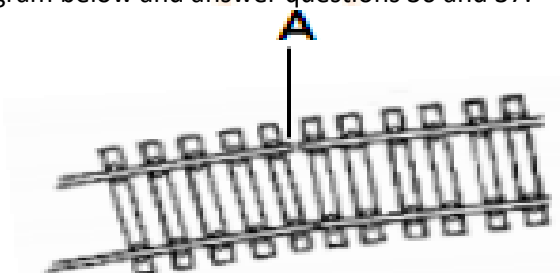
32. Name one enzyme produced by the pancreas used in digestion of fats.

33. Name any one fungal skin infection.

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

35. Identify one animal fibre used in textile industries.

Study the diagram below and answer questions 36 and 37.



36. Why are gaps marked A left between rails during construction of railway lines?

37. What would happen if gaps marked A were not left between rails?

38. Suggest any one method of food preparation.

39. How does a toadstool feed?

40. What role do teeth play during digestion?

SECTION B (60 MARKS)

41. Given the list of animals: frog, goat, hen, crocodile and tilapia

a) What similarity is in all these animals?

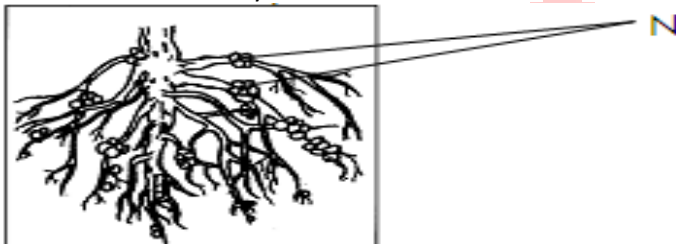
b) which two animals are homoeothermic?

i) _____

ii) _____

h) How is a crocodile different from a tilapia?

42. The diagram below is of a root system. use it to answer the following questions



a) Name structure N. _____

b) Which group of plants has the above root system?

c) What is the importance of organisms found in structures marked N?

d) State any one crop with such roots.

43. a) Give the danger of taking expired drugs.

b) Mention any two examples of essential drugs.

i) _____

ii) _____

c) Suggest one danger of passive smoking to people.

44. a) Distinguish between renewable and non-renewable resources.

b) Identify one example of non-renewable resource.

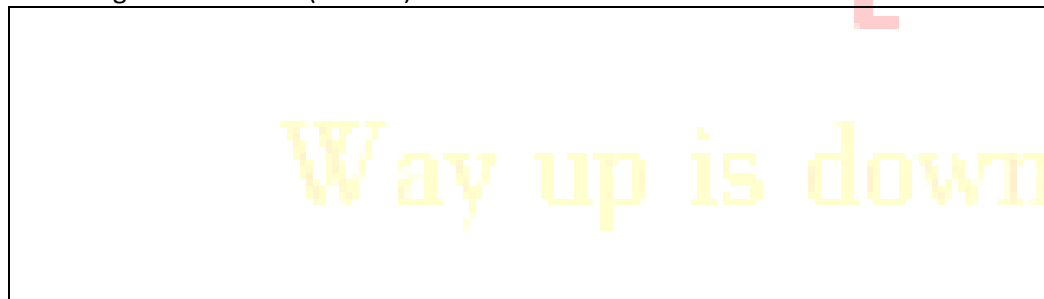
c) How can school going children prevent environmental degradation?

i) _____

ii) _____

45. An incident ray of light struck a plane mirror at an angle of 27° .

a) Find the angle of reflection (2marks)



b) In the space below, draw an illustration to show that light travels in a straight line.

c) Apart from sight, give one other use of eyes to humans.

46. Match the following forms of electricity with their sources.

Types of electricity

- Thermal electricity
- Hydro electricity
- Geothermal electricity
- Atomic electricity

Sources

- Fast flowing water
- Uranium
- Fossil fuels
- Steam from hot rocks
- The sun

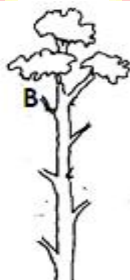
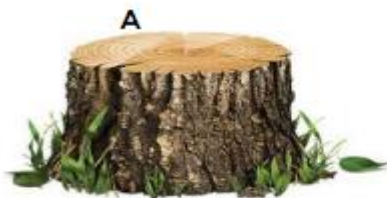
47. a) Define the term immunization.

b) Identify one air borne immunisable disease.

c) Why is measles vaccine administered at 9 months?

d) State any one sign of tetanus in infants.

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



a) Name the methods A and B

i) A _____ ii) B _____

b) Which of the above methods is used to harvest wood for timber?

c) How does afforestation control soil erosion?

49. a) Why do farmers dock their sheep?

b) Identify the best wool producer among sheep.

c) Suggest any one product got from wool.

d) How is the cause of blue tongue different from that of anthrax in sheep?

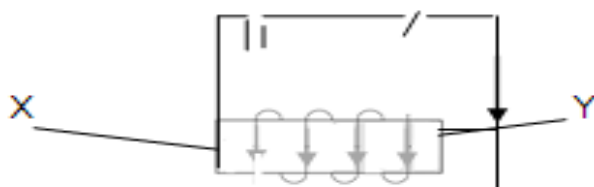
50. Mabiye often runs on the school compound.

a) Identify one accident he is likely to encounter.

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

h) 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.

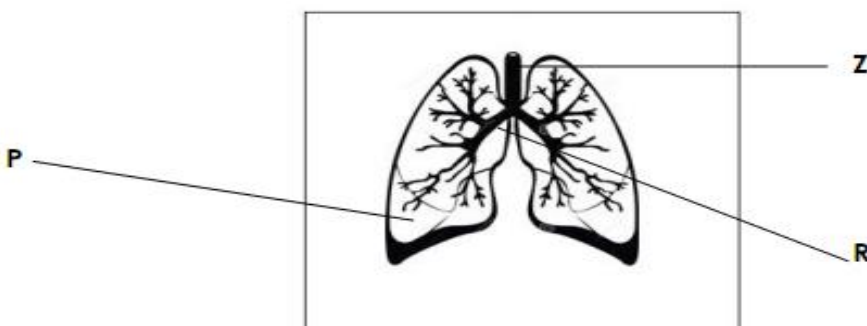
c) Give any two examples of insects which undergo the above type of metamorphosis.

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 THIRTY THREE

SECTION A

1. What is the use of small hair found in the nose?

2. Which immunisable disease causes lameness in children?

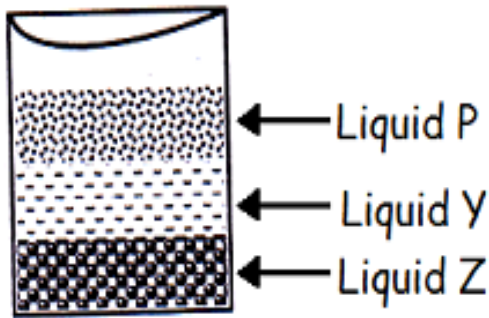
3. Why is a cockroach classified as an invertebrate?

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. Kitutu touched a kettle full of water and found it to be hot. Which body sense enabled her to tell that the kettle was hot?

The diagram below shows three liquids with different densities. Use it to answer question 7.



7. Which of the three liquids has the lowest density?

8. What is the role of chlorophyll during the process of photosynthesis?

9. Namukowa sprayed mosquitoes and Namono in the next room could smell the insecticides. What process enabled the smell of insecticides to reach Namono 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.



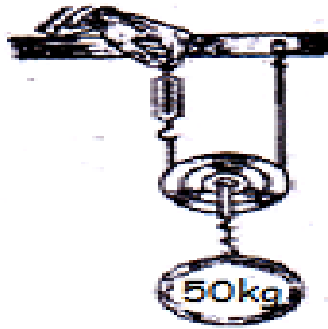
14. How are seeds with hooks like black jack dispersed?

15. Nandutu 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.

Blank box for calculation.

19. Suggest one way a P.7 candidate can promote personal hygiene.

20. Convert 149°F to $^{\circ}\text{C}$.

Blank box for conversion calculation.

21. How can a farmer improve on his local breeds of rabbits?

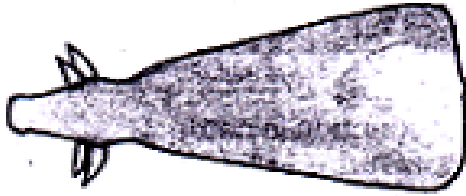
22. Name the method that is used to measure the volume of irregular objects.

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 Wabule who wants to determine the amount of rainfall received in his home area?
34. Name the mineral from which tungsten 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?

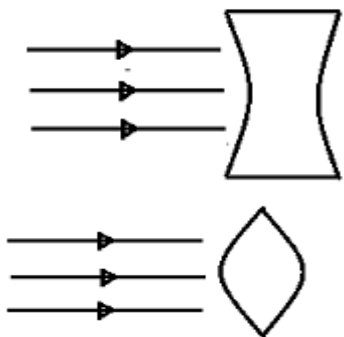
(b) How does a fish help in controlling the above disease?

(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.

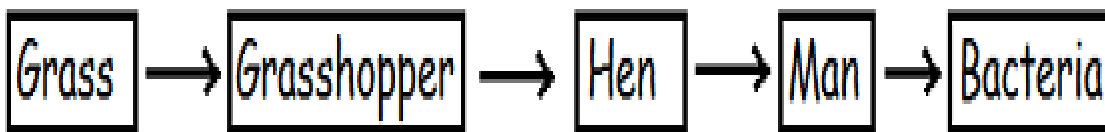
i) _____

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.

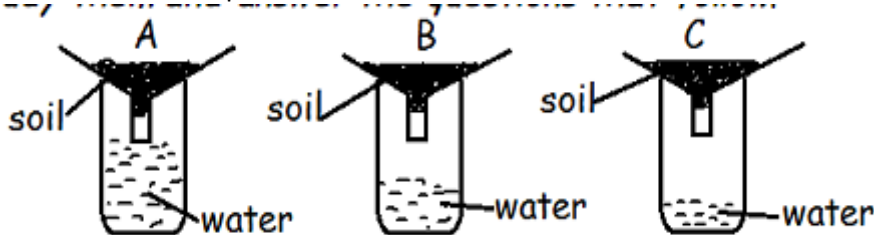
(b) The lower chambers of the heart.

(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.



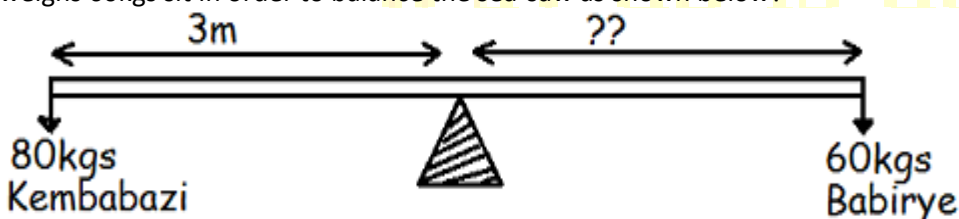
(a) Name the type of soil marked A.

(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. Mr. Maina weighs 80kgs and sits 3 meters from the fulcrum. How far from the pivot should her friend Khabuya 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) _____

(b) 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) _____

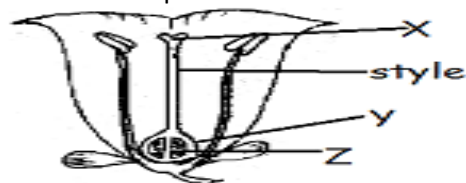
ii) _____

(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?
