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PLE SOLUTIONS

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INTEGRATED SCIENCE 1993-2020

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LET'S DISCOVER OUR POTENTIALS

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HP

PRIMARY LEAVING EXAMINATION

2020

INTEGRATED SCIENCE

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the type of cloud which is the highest in the sky.

.....

2. State any one way of controlling the spread of ringworm among children.

.....

3. Which type of soil erosion creates deep channels in the ground?

.....

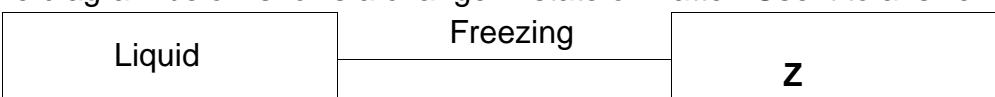
4. Name the component of blood affected by the sickle cell disease.

.....

5. What is the function of the endosperm of a maize grain?

.....

The diagram below shows a change in state of matter. Use it to answer questions 6 and 7



6. What is the state of matter at Z?

.....

7. Name the process by which Z changes back to liquid.

.....

8. Which part of a cow is affected by mastitis disease?

.....

9. State the principle on which a periscope works.

.....

10. State any one condition that favours the multiplication of bacteria.

.....

11. Give any one example of a non-renewable energy resource.

.....

12. State any one way in which the spread of germs through fingers can be controlled.

.....

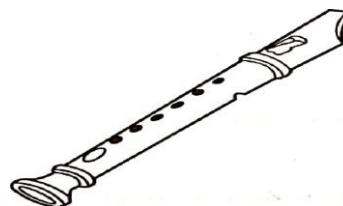
13. Which method of heat transfer does not need any form of matter?

.....

14. State any one characteristic of a worker bee.

.....

The diagram below is of a musical instrument. Use it to answer questions 15 and 16.



15. Name the group of musical instruments to which the instrument above belongs.

.....

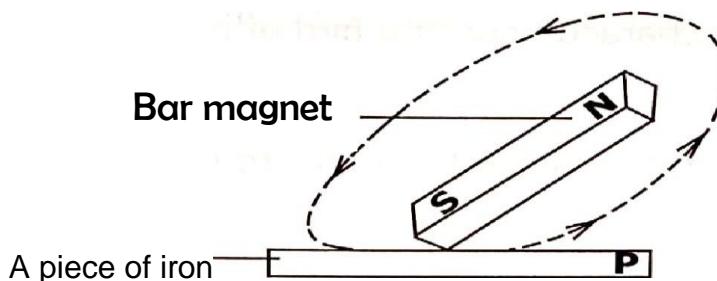
16. How can the pitch of the above instrument be varied?

.....

17. How are legumes different from other dicotyledonous plants?

18. State the method used to find the volume of an irregular object.
19. Give any one way in which a school health club can promote health in their community.
20. State any one advantage of having proper housing for goats.
21. How does the skin cool down the human body temperature on a hot day?
22. State any one danger of teenage pregnancy to adolescent girls.
23. Give any one life skill that children need to develop in order to safe guard themselves against drug dependence.
24. State any one way in which the spread of hookworms can be prevented.

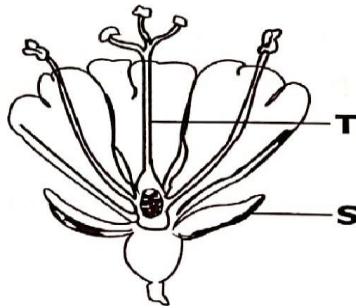
The diagram below shows a method of making a temporary magnet. Study and use it to answer questions 25 and 26



25. Name the method shown above.
26. What will be the pole at P after magnetization?
27. How does chlorine make water safe for drinking?
28. Name the type of lens used in a magnifying glass.
29. Apart from getting food, give any one other way in which rabbits benefit from plants.
30. Why are the triceps and biceps muscles referred to as voluntary muscles?
31. Apart from using medicine, state one other way of preventing the spread of coccidiosis in poultry.
32. Give any one characteristic of a bird of prey.
33. How do cockroaches spread diseases to people?

The diagram below is of a flower. Use it to answer questions 34 and 35.





34. Name the part labelled T.

.....

35. Give the function of the part labelled S to a flower before it opens up.

.....

36. Name the human respiratory disease whose signs are loss of weight, chronic cough and blood-stained sputum.

.....

37. State the digestive disorder which can be prevented when people chew food properly and eat the right amount.

.....

38. Give one reason why a person who has fainted should be placed in a cool and open space.

.....

39. Give any one harmful effect of polythene bags to soil.

.....

40. State the method which can be used to obtain salt that has dissolved in water.

SECTION B: 60 MARKS

41.(a) What form of energy is stored in wood fuel?

.....

(b) Name any one form of energy produced when wood burns.

.....

(c) State any two practices carried out at home to conserve wood fuel.

.....

42.(a) Apart from the vertebral column, give any two other parts of the human skeleton used for protection.

.....

(b) Name the part protected by the vertebral column in the human body.

.....

(c) Give any one health habit that helps to strengthen the human skeleton.

.....

43.(a) Apart from animals, mention **two** other agents of seed dispersal.

.....

(b) State any **two** characteristics of seeds dispersed by animals.

44.A patient was given a packet of drugs labelled with information as shown in the diagram below. Use it to answer the questions that follow.



(a) What name is given to such information written on a packet of drugs?

.....

(b) Give any one reason why such information is important to patients.

.....

(c) How many times a day is the patient supposed to take the drug?

.....

(d) The patient took the drug in the morning, for how many hours should the patient wait before taking the drug again?

45.(a) State any two effects of heat gain on matter.

.....

(b) Give any two ways in which a blacksmith uses heat.

46.below shows human body organs, the system to which they belong and the organ function. Study and complete it correctly.

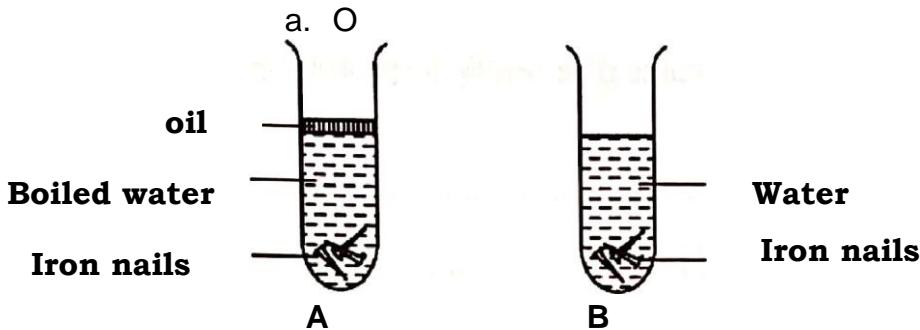
ORGAN	SYSTEM	ORGAN FUNCTION
Heart	Circulatory
.....	Excretory	Formation of urine
Pancreas	Produces pancreatic juice
Epididymis	Reproductive

47.(a) Name the group of simple machines to which each of the following tools belongs;

- a) a ladder
- b) a panga.....

(b) Give any two ways in which simple machines make work easier.

48.The diagram below shows an experiment about rusting. Use the diagram to answer the Boiled water questions that follow.



(a) In which of the containers will the iron nails rust after some days?

(b) Why would the iron nails in the container you have identified rust?

(c) Give one reason why oil was poured in container A.

(d) What would happen to the nails if they were painted before being put in the containers?

49.(a) Name the type of immunity acquired through;

(i) recovery from illness:.....

(ii) immunization:.....

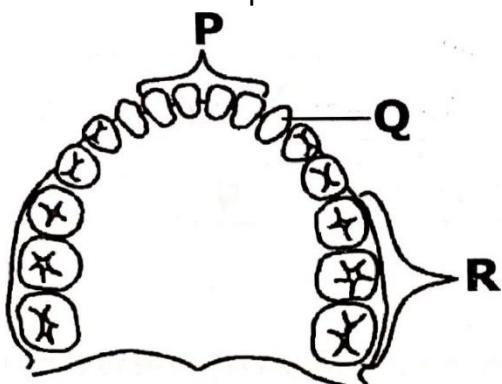
(b) Give any two roles of a family in promoting immunization in their area.

50.(a) State one way in which cattle farming contributes to the development of leather industry.

(b) Apart from leather industry, give any one other example of industry that uses cattle products.

(c) State any two ways in which cattle farmers can improve on the quality of cattle products.

51.The arrangement of permanent teeth in the lower jaw of a human being. Study the diagram and use it to answer the questions that follow.



a) Name the type of teeth marked Q.

b) State the function of the types of teeth labelled;

- i. A
- ii. B

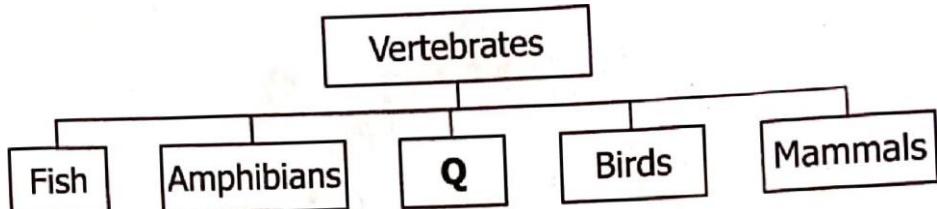
c) Identify any one difference between the structure of the types of teeth labelled Q and R.

52.(a) Give any two reasons why farmers first plant some seeds in a nursery bed

(b) State any **two** advantages of planting crops in rows.

.....

53. The table below shows classes of vertebrates. Study and use it to answer the questions that follow.



a) Name the class of vertebrates represented by Q.

.....

b) Apart from having backbones, give one characteristic common to;

i. all fish, amphibians and vertebrates in class Q.

.....

ii. birds and mammals.

.....

c) State the difference in reproduction between vertebrates in class Q and the amphibians.

.....

54. (a) Name the disease which results from the deficiency of vitamin C in human body.

.....

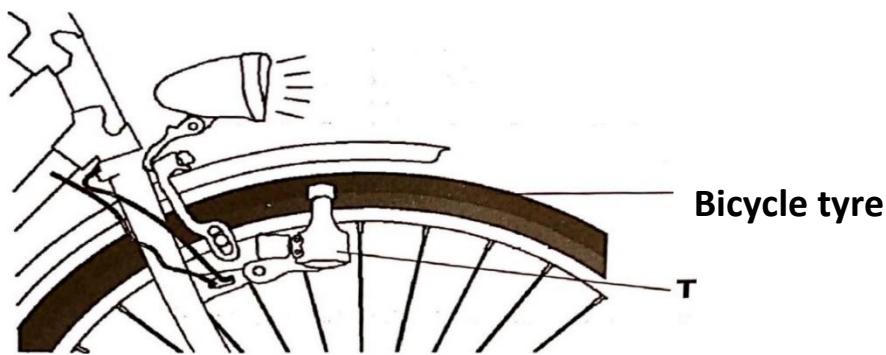
(b) State any two signs of the vitamin C deficiency disease in humans.

.....

(c) Give any one example of food which gives us vitamin C.

.....

55. The diagram below shows an equipment on a bicycle that is used to produce electricity. Study and use it to answer the questions that follow.



a) Name the equipment labelled T.

.....

b) Give the function of the bicycle tyre in producing the electricity.

.....

c) State the energy change that takes place in equipment labelled T when it is in use.

.....

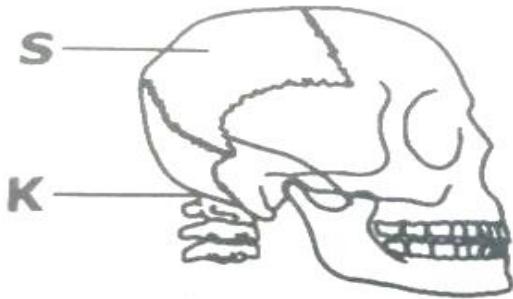
d) State one way in which the amount of electricity produced by the equipment labelled T can be increased.

.....

**PRIMARY LEAVING EXAMINATIONS
SCIENCE 2019**

1. Name the source of solar energy.
.....
2. Which Vector spreads relapsing fever to people?
.....
3. State any one use of razor blade in promoting personal hygiene.
.....
4. Give any one example of biological change in plants.
.....
5. Which group of cold blooded vertebrates undergoes internal fertilization?
.....

The diagram below is of a human skull and a neck vertebra. Use it to answer questions 6 and 7.



6. Name the movable joint at K.
7. Which delicate organ is protected by S?
8. State the type of cattle kept to provide labour in a farm.
9. What type of objects do not form shadows?
10. Why does water drain faster in sand soil than clay soil?
11. How is the eardrum useful in the process of hearing?
12. Write down any one activity done to seedlings during hardening off.
13. State any one characteristic of incisor teeth which makes them suitable for their function.
14. How can the breeding of houseflies be controlled in our compounds?
15. Which deficiency disease is caused by lack of Vitamin B1 in a diet?

The diagram below shows a head of a tapeworm,. Study it and answer questions 16 and 17.





16. Name the part marked A.

17. How is part B useful to the tapeworm?

18. State any one characteristic of essential drugs.

19. Give any one way in which you can re-use plastic objects at home.

20. How do carnivorous animals get energy from plant?

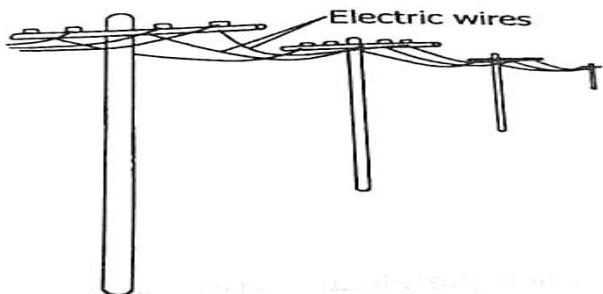
21. State one characteristic of non-renewable resources.

22. State any one difference in function between an artery and a vein.

23. Give any one way in which having regular physical exercises is important to the human body.

24. How is a coconut seed adapted to water dispersal?

The diagram below shows electric wires under a certain weather condition. Study it and answer questions 25 and 26



25. In which kind of weather condition do the electric wires appear as shown above?

26. Why do the electric wires appear as shown above?

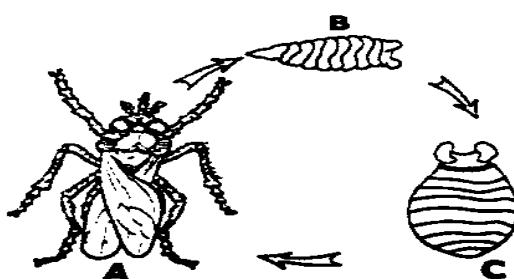
27. Why is alcohol used in a maximum and minimum thermometer?

28. How does mouth to mouth breathing help a victim of near drowning?

29. State the importance of the hairs in the nose during breathing.
.....
30. Which immunisable disease affects the liver?
.....
31. Apart from light Sussex, name any one other exotic breed of chicken kept for meat.
.....
32. Which rabbit disease causes wounds in their ears?
.....
33. Give any one way in which the electric current produced by a dynamo can be increased.
.....
34. How does an object less dense than water behave in water?
.....
35. State any one condition which is favourable for bacteria breed.
.....
36. Name any one root tuber crop which is propagated by use of seeds.
.....
37. Which group of invertebrates has segmented bodies and jointed legs?
.....
38. How does the PIASCY programme help school children to avoid being infected with HIV/AIDS?
.....
39. Give any one reason why farmers sort seeds before planting them.
.....
40. Apart from the skin, give any one other human body organ that excretes excess water.
.....

SECTION B

41. (a) Name the component of air used for;
(i) Respiration.....
(ii) Putting out fire.....
(b) State any two dangers of wind to people
.....
-
42. The diagram below shows the life circle of a vector. Study it and answer the questions that follow.



a) Name the vector whose life cycle is shown above.

b) Name the stage marked B.

c) What does stage A feed on?

d) How does the vector whose life cycle above spread disease?

43. (a).Write down any **two** causes of nose bleeding.

(b) Why is a person whose is nose bleeding advised to,

(i) lean back his/her head?

(ii) pinch the soft part of his/her nose?

44. In the table below, part A shows terms used to describe sound and part B has a meaning of the terms.

Part A	Part B
Volume	Number of vibrations per second
Pitch	Reflected sound
Frequency	Loudness or softness of sound
Echo	Highness or lowness of sound

Use the meanings in part B of the table to match the terms below

(a) Volume.....

(b) Pitch.....

(c) Frequency

(d) Echo

45. (a) Write down any two reasons why toads are classified as amphibians

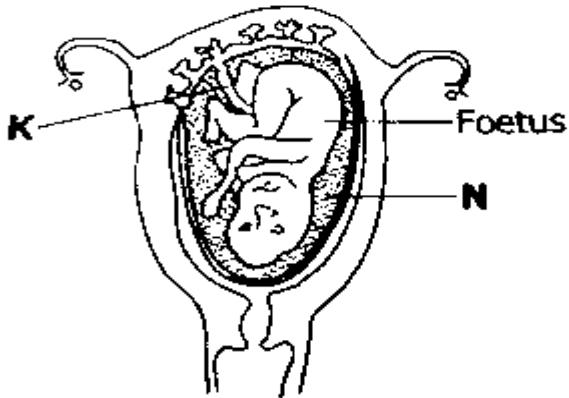
(b) In which two ways are fish different from amphibians?

46. (a) Write down any two pieces of information which are collected in a health survey.

(b) Give two reasons why carrying out a health survey in an area is important.

47. The diagram below is of a developing fetus in a mother's womb. study it and answer the questions that follow.





(a) Name the substance marked N

(b) Give two uses of the part marked K to the fetus

(c) On the diagram above, label placenta.

48. (a) Give one example of an exotic breed of goats kept in Uganda.

(b) Name one example of fibre got from goats.

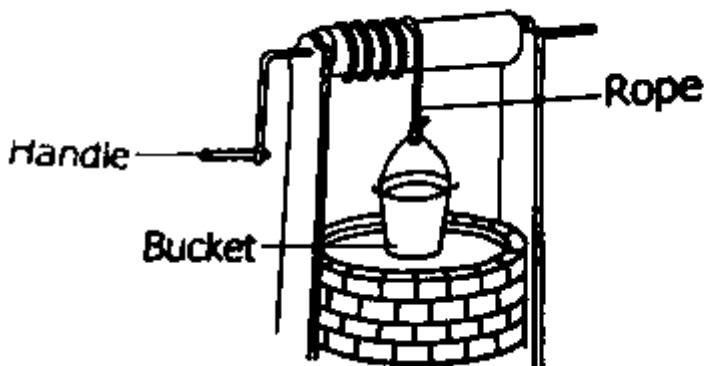
(c) State any two reasons why some farmers would prefer rearing goats to cattle.

49. (a) State any two ways in which weeds can lower the yield of crops.

(b) State any one way in which the growth of weeds can be controlled in a garden.

(c) Apart from controlling weeds, give any one other way farmers can care for their crops.

50. The diagram below shows a simple machine. Study it and answer the questions that follow.



a) To which type of simple machines does the machine above belong?

b) State any one use of the simple machine above.

c) Name any one force that makes work difficult when using the above machine.

d) Give one other example of a machine that belongs to the above type of simple machine.

51. (a) Which digestive juice is produced in the mouth?

(b) Write down any two things that happen to food in the mouth.

(c) Which digestive disorder is prevented by including roughage in our diet?

52. (a) State any two factors that should be considered when starting a tree growing project.

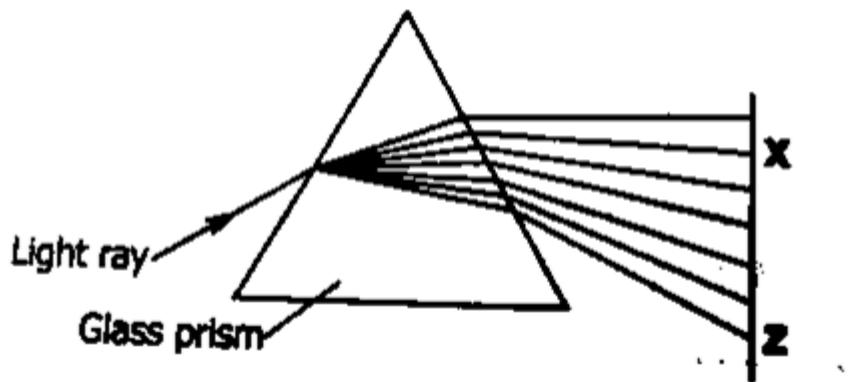
(b) Give any two benefits of a woodlot to a community

53. What substance in plants helps them make their own food?

(b) How is feeding in ferns different from that of mushrooms?

(c) Apart from ferns, give any two other plants which are similar to mushrooms in their way of reproduction.

54. The diagram below shows how light is split into seven colours using a glass prism. Study it and answer the questions that follow.



a) Name the colours X and Z

- b) Why do the light rays bend at different angles as they leave the glass prism?
.....
c) Why do we usually see the above band of seven colours in the sky when it is raining?
.....

55. (a) State any two signs of poor sanitation in a school.
.....

(b) Give any two diseases than can break out due to poor sanitation in a school.
.....
.....

PRIMARY LEAVING EXAMINATIONS SCIENCE 2018

1. State any one sign of a compound fracture.
.....
2. What happens when a new queen is born in a hive?
.....
3. Which human body organ balances the amount of water needed in the body?
.....
4. Give any one disorder of the human digestive system.
.....

The diagram below is of a crow bar. Study and use it to answer questions 5 and 6



5. Which of the two positions X and Y requires less effort to overcome the load W?
.....
6. Indicate on the diagram with an arrow E, the direction of the effort used to overcome the Load W.
.....
7. Why do houseflies lay their eggs in decaying matter?
.....
8. Why is a fuse made of a thin wire?
.....
9. Where are seeds of coniferous plants found?
.....
10. How is the function of anthers in flowers similar to that of testes in humans?
.....
11. How do farmers control the breeding of poor quality animals on their farms?
.....

12. By what process is alcohol made from fruit juice?
.....
13. Give any one way in which school children can promote immunization in their community.
.....
14. What First Aid would you give to a child who has taken paraffin?
.....
15. State the importance of observing good posture to the human body.
.....

The diagram below shows a fruit crop. Use it to answer questions 16 and 17



16. How is the above crop propagated?
.....
17. Give one other crop which is propagated in the same way as the crop shown above.
.....
18. Give any one way in which human beings can prevent tapeworm infection.
.....
19. How does smoking control the effect of bacteria in food preservation?
.....
20. How are arteries able to withstand pressure of blood pumped from the heart?
.....
21. State any one way in which people use sand soil.
.....
22. Give any one disadvantage of overcrowding chicken in their house.
.....
23. Which part of a maize grain absorbs and supplies food to the embryo?
.....
24. What is the importance of the black lining inside a solar drier?
.....
25. Mention any one factor considered when sorting clothes for washing.
.....
26. Apart from removing dirt, why should the udder and teats be washed with warm water before milking?
.....
27. How does prolonged breastfeeding help in child spacing?
.....
28. What type of change is molting in insects?
.....
29. How is a lunar eclipse formed?
.....

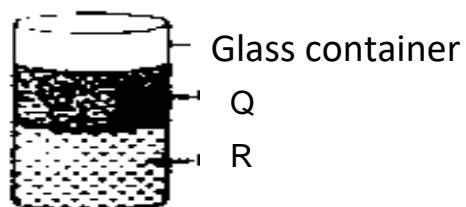
-
30. What determines the sinking or floating of an object in water?
-
31. How does covering of food during cooking help to conserve wood fuel?
-
32. State any one characteristic of images formed on the retina.
-
33. Why are eagles referred to as birds of prey?
-
- 34. The diagram below shows bags of maize flour in a store. Use it to answer the question that follows.**



- Why are the bags of maize flour put on such a raised stand?
-
35. How is water as a renewable resource replaced in the environment?
-
36. Give any one way in which proper disposal of wastes is important in our environment.
-
37. What would you do to a guitar string to make it produce a high pitched sound?
-
38. Why do the lungs expand during breathing in?
-
39. Give any one way in which the spread of Hepatitis B disease can be controlled.
-
- 40. How are plants important in a food chain?**

SECTION B

41. a) Name the outermost layer of the human skin.
.....
b) State any one waste product removed by the skin.
.....
c) Apart from removing wastes, mention two other functions of the human skin.
.....
- 42. The diagram below shows a glass container into which water and cooking oil were poured. The two liquids settled as shown. Study and use it to answer the questions that follow**



a) Which of the two liquids is represented by:

Q

R

b) State any one method that can be used to separate the two liquids.

c) Why has liquid Q settled on top of liquid R?

43. In the table below, part A shows processes in human reproduction. Part B shows meaning of the processes in their wrong order.

A: Processes	B: Meaning
a) Ovulation	Union of a sperm and an ovum
b) Implantation	Release of ovum from ovary
c) Pregnancy	Attachment of the embryo on the uterus wall
d) Fertilization	A period from fertilization to birth

Select from the table the correct meaning of the processes and write in the space provided below.

a) Ovulation

b) Implantation

c) Pregnancy

d) Fertilization

44. a) Write down any two causes of weathering of rocks

.....

b) Apart from weathering, name the other process by which soil is formed.

.....

c) How do living organisms in soil help to improve soil fertility?

.....

45.a) Give the importance of each of the following components of oral rehydration solution (ORS) to a patient.

i) Sugar

ii) Water

b) Apart from using ORS, give two other ways of replacing lost fluids in a patient.

.....

46. The diagram below shows a defect of the human eye. Study and use it to answer the questions that follow.



a) Name the eye defect shown above.

.....

b) State the two causes of the eye defects shown above.

.....

c) What type of lens is used to correct the above eye defect?

47. The table below shows weather elements, instruments and their uses. Study and complete it correctly.

Element	Instrument	Use
Rainfall	Measures the amount of rainfall
.....	Hygrometer	Measures the amount of water vapour in atmosphere
Wind	Measures the speed of wind
Temperature	Thermometer

48. a) State any two ways in which animals depend on other animals

.....
.....

b) Give any two ways in which plants depend on other plants

.....
.....

49. The following is a list of animals that belong to different classes of vertebrates. Use it to answer the questions that follow.

Monkey, Parrot, Crocodile, Tilapia

a) In which class of vertebrates does a crocodile belong?

.....
.....

b) Name the class of vertebrate which is not represented in the above list

.....
.....

c) Identify any one animal from the above list which is cold blooded.

.....
.....

d) How is the reproduction of tilapia different from that of a parrot?

.....
.....

50. a) Give one reason why drugs should be kept;

i) away from moisture and sunlight.

.....
.....

ii) out of reach of children

.....
.....

b) State any two ways in which people in a family can misuse drugs.

.....
.....

51. a) What germ causes mastitis in cattle?

.....
.....

b) Give any two signs of mastitis

.....
.....

c) State any one way of controlling mastitis in cattle.

.....
.....

52. a) Give any two qualities of seeds that can germinate.

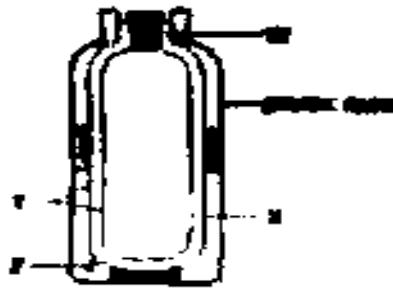
.....
.....

b) State any two farm practices which help in controlling insect pests in a garden.

.....
.....

53. The diagram below is of a thermos flask. Study and use it to answer the questions that follow.





a) Name the parts labeled Y and Z

b) Give any one material that can be used for making part W

c) Why is part X able to prevent heat loss by conduction and convection?

54. a) State any two differences between the external parts of a hen and that of a cock.

b) Write down any one product got from poultry birds.

c) Give any one way in which farmers can improve on the quality of their local breeds of chicken.

55. a) Give any two possible ways through which a baby can get HIV/AIDS from the mother.

b) State two ways in which an HIV positive pregnant woman can protect her unborn baby from getting HIV/AIDS

INTEGRATED SCIENCE 2017

1. State the injury caused by steam to a human body.

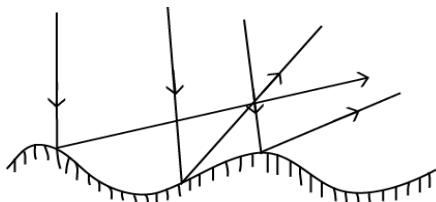
2. What type of electricity is lightning?

3. Give any **one** way in which termites benefit from soil.

4. State **one** effect of gonorrhea on female reproductive system.

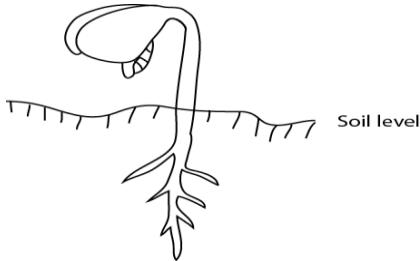
5. What is the importance of gap filling in crop growing?

The diagram below shows reflection of light. Study and use it to answer questions 6 and 7



6. What type of reflection is shown above?
.....
7. Why are the rays reflected as shown in the diagram?
.....
8. State any **one** way in which alcoholism affects a family.
.....
9. State any **one** reason why animals make sound.
.....
10. Name the process through which water turns into ice.
.....
11. In which **one** way does toothpaste promote oral health?
.....
12. State any **one** physical change that takes place during the process of distillation of alcohol.
.....
13. What is the importance of the rings of cartilages of the trachea in the respiratory system?
.....
14. Why does a nail sink in water?
.....
15. Give any **one** danger of wetland drainage to water animals.
.....
16. State any **one** principle of primary Health care.
.....
17. Why are laying boxes put in dark corners of a poultry house?
.....
18. Apart from causing diseases, give one other way in which fungi are harmful to people?
.....
19. How is reflected sound helpful to sailors?
.....
20. Give **one** way in which molluscs are different from other invertebrates.
.....
21. Give any **one** mineral deficiency disease in humans.
.....
22. Name the type of bees, which develops from unfertilized eggs.
.....
23. State any **one** way in which the spread of germs by houseflies can be controlled.
.....

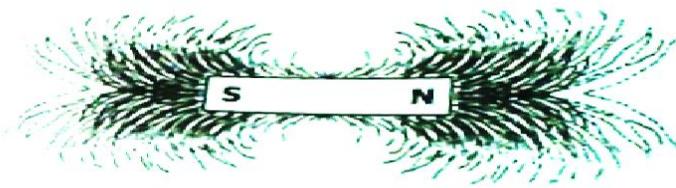
The diagram below shows a germinating seed. Study and use it to answer questions 24 and 25.



24. What type of germination is shown in the diagram above?
.....
25. To which group of flowering plants does the germinating seed belong?
.....
26. State any **one** way in which saliva is useful in the process of digestion.
.....
27. Name the vaccine which is given to prevent three childhood immunisable diseases.
.....

28. Give **one** reason why less effort is applied to move a load using first class levers.

The diagram below shows a bar magnet with iron fillings around it. Study and use it to answer the question that follows



29. Name the property of magnet shown above

30. State any **one** sign of disease on the plant leaves.

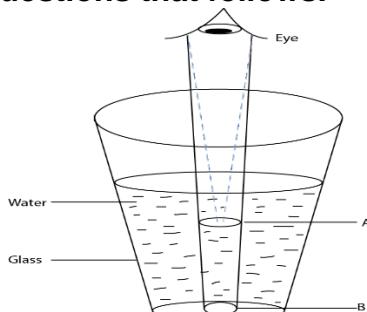
31. Name the organ, which regulates the human body temperature.

32. State any **one** way in which animals can be used as energy resource.

33. Which method of harvesting trees allows new shoots to grow for the stump?

34. Give **anyone** way of controlling the bad smell in an ordinary pit latrine.

35. **The diagram below shows an object in a glass of water. Study and use it to answer the questions that follows.**



Why does the object seem to appear at point A yet it is at point B?

36. State any **one** sign of snuffle disease in rabbits.

37. Which property of air makes the lungs to expand when we breathe in?

38. Apart from curing diseases, give **one** other characteristic of essential drugs.

39. Why is biogas regarded as an environmentally friendly source of energy?

40. State any **one** characteristic of seeds dispersed by wind.

SECTION B: 60MARKS

41.(a)Give any two signs which show that a baby is dehydrated

(i).....

(ii).....

(b) State any **two** pieces of advice to give to a mother whose baby is dehydrated.

(i).....

(ii).....

42 (a) Use the living things listed below to complete the given food chain

Lion, Goat, grass

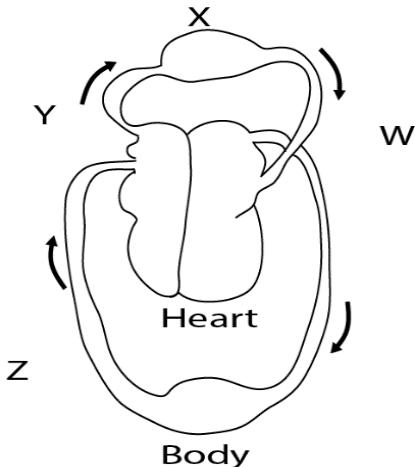
..... → Goat →

(b). Which one of the livings in the food chain above is a producer?

(c) What is the source of energy for the producer in the food chain above?

43

The diagram below shows circulation of blood in the body. Study and use it to answer the questions that follow.



(a) Name the organ marked with letter X

(b) Which blood vessel is marked with letter W?

(c) State the similarity between blood vessel Y and blood vessel Z.

(d) Why does vessel W bring blood back to the heart?

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

(i).....

(ii).....

(b) Which agent of soil erosion causes gullies?

(c) How does soil erosion lead to soil infertility?

45. The table below shows information collected from five homes during a healthy survey. Study it to answer the question that follow.

Homes	Sanitation items checked			
	Latrine	Rubbish pit	Bathing shelter	Drying rack
A	X	X	✓	X
B	✓	✓	✓	✓
C	X	✓	✓	✓
D	X	X	X	✓
E	X	✓	✓	X

Key

X = item missing
✓ = item present

(a) Which home had all the sanitation items?

(b) Identify the sanitation item missing in most of homes surveyed.

(c) Name any one disease that is likely to attack homes A, C, D and E.

(d) Give any one other sanitation item which could be added in the health survey.

46.(a) What causes fainting?

(b) State any two conditions that can lead to fainting.

(i).....

(ii).....

(c) Why are the legs of a person who has fainted raised higher than the head when giving first Aid?

47. Use the list of crops given to answer the questions that follow.

Conifer, coffee, cassava, groundnuts

(a) Which crop on the list is propagated by use of stem cutting?

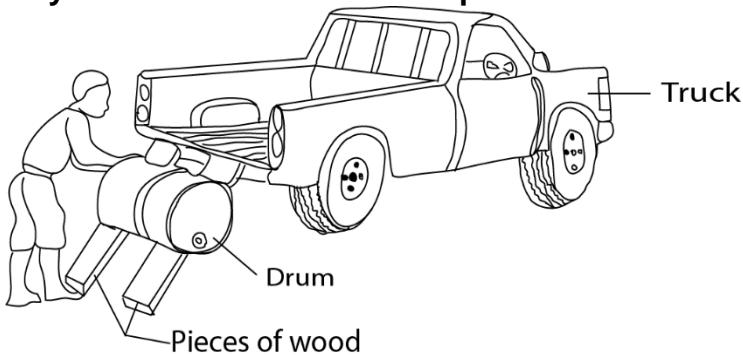
(b) Identify any one crop on the list which is:

(i) An annual crop.....

(ii) A perennial crop.....

(c) Give any one way in which a conifer is different from all the other crops on the list

48. The diagram below shows a man using a simple machine to load a drum on to a truck. Study and use it to answer the questions that follow.



(a) What type of simple is the man using?

(b) Give any two examples of the type of simple machine you have named in (a) above.

(i).....

(ii).....

(c) How can the man improve on this simple machine above in order to make his work easier?

49 (a) Which breed of cattle is obtained by making a pure local breed and an exotic breed?

(b). Give any **two** reasons why some farmers prefer keeping local breeds of cattle to exotic breeds.

(i).....

(ii).....

(c) State any one characteristic of dairy cattle

50 (a). Name any two bones that form the joint at the knee of the human body.

(i).....

(ii).....

(b) What name is given to the joint at the knee?

(c) In which one way friction reduced at a joint?

51 The table below shows some common infection, organisms that cause it and the body part affected. Study and complete it correctly.

Common infections	Organism that cause it	Body parts affected
.....	Chlamydia	Eyes
Tuberculosis	bacteria
.....	Virus	Muscle and bones
scabies	Skin

52(a) Apart from rainfall, give one other element of weather necessary for plant growth.

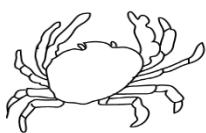
(b) In which two ways is rainfall important for plant growth?

(i)

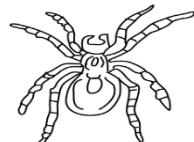
(ii)

(c) State any one disadvantage of too much rainfall to plants.

53 The diagrams below show animals in the arthropods group. Study and use them to answer the questions that follow.



X



Y



Z

(a) Name the group of arthropods to which animals X and Y belong

(i) X

(ii) Y

(b) Give any one reason why animal Y does not belong to the same group as animal Z.

(c) How are animals X, Y and Z similar in the way they reproduce?

54(a) Apart from raising the temperature of substances, give any two effects of heat on matter.

(i)

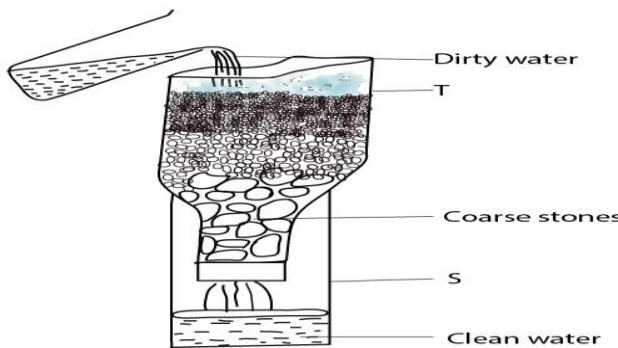
(ii)

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

(i)

(ii)

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



(a) Name the method shown above

.....
(b) Apart from the coarse stones, name any **two** other local materials which are placed in container T.

(i).....
(ii).....

(c) Why should the clean water obtained in container s e boiled before drinking?

.....
.....

PRIMARY LEAVING EXAMINATIONS SCIENCE 2016

1. Name the gas used in fire extinguishers.

.....

2. State the eye disease which is spread by houseflies.

.....

3. Which part of a fish performs a similar function as a human ear?

.....

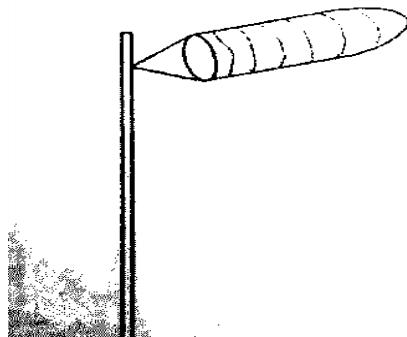
4. Name the male reproductive cell in flowers.

.....

5. Give one way in which wood fuel can be conserved.

.....

The diagram below is a weather instrument. Use it to answer the question that follows.



6. What is the use of this instrument at a weather station?

.....

7. Which method of heat transfer enables a person to iron clothes using a flat iron?

.....

8. Why should cold water be poured on the part of the body which has been scaled or burnt?

.....

9. Apart from decomposition, in which other way is soil formed?

.....

10. What is the importance of smoke during the harvesting of honey?

.....

11. State the class of lever in which the effort is between the fulcrum and the load?

.....

12. Give a reason why male anopheles mosquitoes do not transmit malaria parasites to humans.

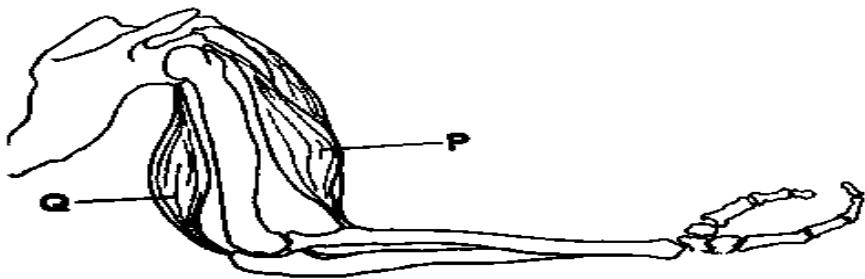
.....

13. How can foot and mouth disease be controlled in cattle?

.....

14. Give one way in which farmers can improve on the supply of nitrogen in the soil without the use of artificial fertilizers.

The diagram below is of a human arm. Study and use it to answer questions 15 and 16.



15. Name the muscle P.

16. What happens to muscle Q when the arm is raised?

17. Which intestinal worm enters the human body through bare feet?

18. How do plants make use of the gas given out by animals during respiration

19. State any one use of plane mirrors to people.

20. Apart from helping in pollination, give one other way in which wind is useful to plants.

21. Which part of a maize grain has a similar function as the cotyledon of a bean seed?

22. State any one characteristic which shows that a bat is a mammal.

23. Which blood cells carry oxygen in the body?

24. Give one reason why breastfeeding is encouraged for at least first two years.

25. Name any one scale in which temperature is measured.

26. Name the human body system to which lungs, kidneys and the skin belong.

27. Give one way in which bacteria in pit latrines are useful.

28. Name one disease that affects the stomach because of alcoholism.

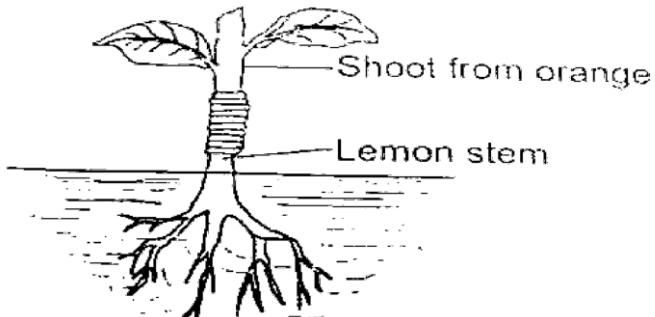
29. Apart from the polio vaccine, name any other vaccine administered to children at 6 weeks of age.

30. In which part of the human alimentary canal is water absorbed?

31. What is the danger of having too much wax in the human ear?

32. What form of energy is produced by dry cells?

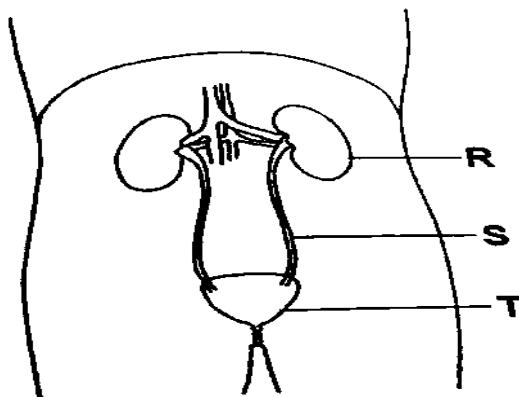
33. Give any one good health habit that can improve the working of the lungs.
34. Apart from eating a balanced diet, give one other way of controlling common disease at home.
35. The diagram below shows a method of plant propagation. Use it to answer the question that follows.
36. Name the method of plant propagation shown in the diagram above.



37. Which organs are used by both fish and tadpoles for breathing?
38. Give any one secondary sex characteristic which is common to both adolescent boys and girls.
39. Name the fungi which grow on the left over foods.
40. What happens to light rays when they meet a convex lens?

SECTION B

41. (a) State two ways in which vectors spread diseases to humans.
- (b) Give any two ways of preventing vectors from spreading diseases to humans.
42. The diagram below is of a human urinary system. Study and use it to answer the questions that follow.



(a) Name the parts marked S and T.

.....
(b) What is the function of the part marked R

.....
(c) Give any one disease that affects the above system

43. In the table below, part A shows some activities carried out by farmers and part B shows the effects of the activities. write the correct effect to the activity in the space provided below.

- (i) Irrigation.....
(ii) Afforestation.....
(iii) Mulching.....
(iv) Crop rotation

44. (a)Give any two examples of non-renewable resources in the environment

.....
.....
(b) State any two ways of conserving non-renewable resources.

.....
.....
45. (a) To which group of plants do ferns and liverworts belong?

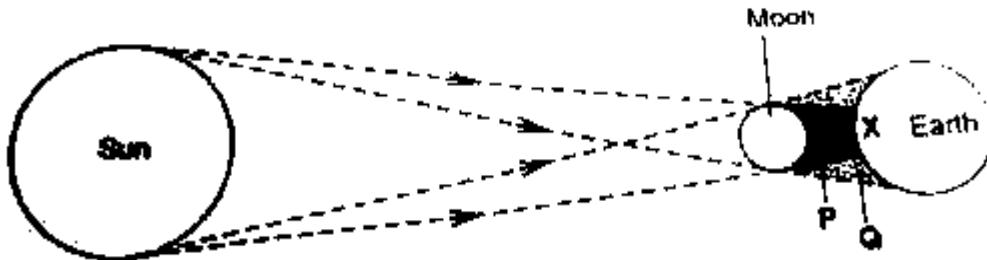
.....
.....
(b)How is the reproduction of ferns similar to that of liverworts?

.....
.....
(c) Give two other plants that produce in the same way as ferns and liverworts.

46. (a) Name the change of state which takes place when:

- (i) Vapour changes to liquid.....
(ii) a solid changes directly to gas
(b) Apart from causing change of state, give two other effects of heat matter.

47. The diagram below shows a type of eclipse. Study and use it to answer the questions that follow.



(a) Name the type of eclipse shown in the diagram above.

.....
(b) Name the shadows marked P and Q

P.....

Q.....

(c) What happens to a person who would be in part X during the eclipse?

.....
(a) In which one way is each of the following elements of primary Health Care (PTC) important to the community?

(i) Water and sanitation

.....
(ii) Maternal and child health

(b) Give any two health care services which are provided through maternal and child health.

.....
49. (a) Name two systems of keeping poultry that enables a farmer to keep large numbers of birds.

.....
(b) State any two viral diseases that can spread easily in the above systems of poultry keeping.

.....
50. (a) Give any one characteristic which is common to all invertebrates

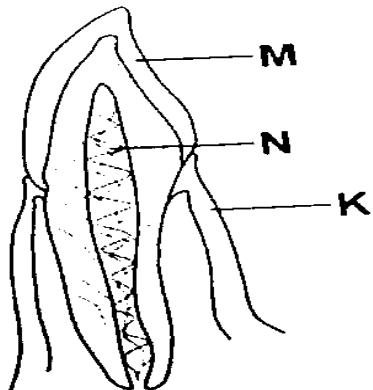
.....
(b) To which group of invertebrates does each of the following animals belong?

(i) Snail.....

(ii) Grasshopper

.....
(c) State one way in which snails may be dangerous to humans.

.....
51. The diagram below shows a section through a human tooth. study and use it to answer the questions that follow



(a) Name the parts marked M and K.

M.....

K.....

(b) Which mineral salt helps to form part M?

.....

(c) Give the function of the part labeled N.

.....

52. (a) State the method that can be used to separate

(i) fruit seeds in juice.....

(ii) millet seeds mixed with its husks



(b) Give the importance of the following steps in cleaning clothes at home.

- (i) sorting
(ii) soaking

53. (a) Write down any two examples of anti-social behavior in our communities.

.....

(b) State any two ways of controlling anti-social behavior in our communities.

.....

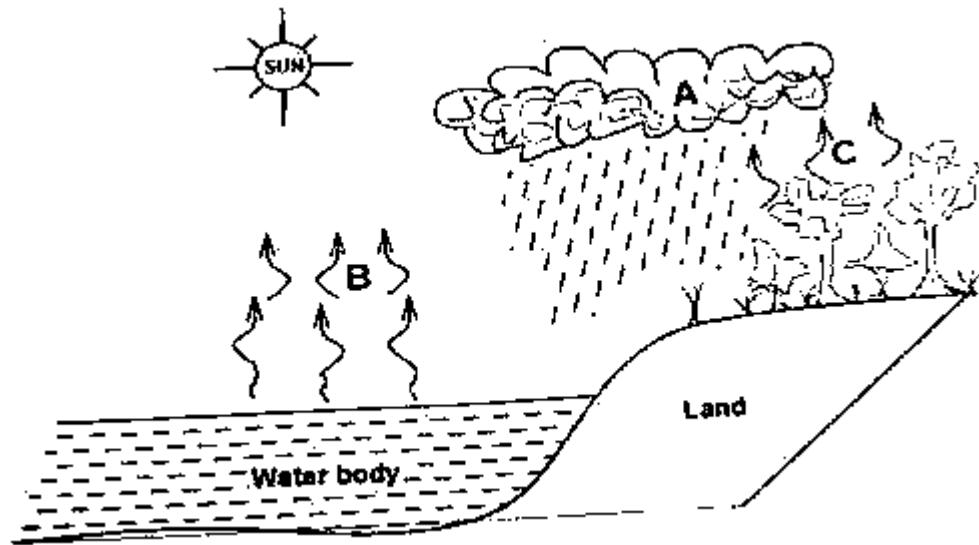
54. (a) Apart from using solfa notation, mention any two other ways of storing sound.

.....

(b) Name two instruments used to reproduce the sound stored by solfa notation.

.....

55. The diagram below shows the water cycle. Study and use it to answer the questions that follow.



(a) Name the types of clouds represented by letter A.

.....

(b) State the processes taking place at B and C.

B.....

C.....

(c) What is the importance of the sun in the above diagram?

.....

PRIMARY LEAVING EXAMINATIONS Science 2015

1. Which type of immunity do babies get from the mother.

.....

2. Name the blood vessel which takes blood from the heart to the lung.

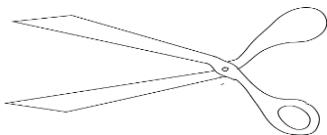
.....

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

4. Mention any **one** factor that affects the rate of evaporation.

5. State the difference in units to measure weight and mass.

The diagram below shows a simple machine. Use it to answer questions 6 and 7.



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

7. Use an arrow with letter P to show the fulcrum on the diagram.

8. Give any **one** way in which litter is important in a poultry house.

9. Apart from the brightly colored petals, state **one** other thing that attracts insects to the flowers.

10. State any **one** way in which drought affects food production in a community.

11. State the difference between the feeding of tape worm and a Hook worm.

12. Why is water obtained by distillation method not good for drinking?

13. State the sense organ for feeling in the human body.

14. Which property of a magnet enables a magnet compass to work.

15. State any **one** way in which the spread of scabies can be prevented.

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

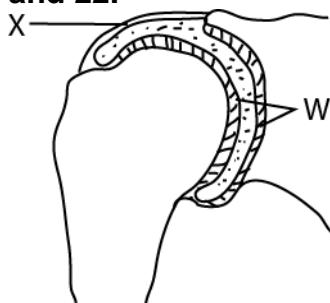
17. Mention **one** permanent method of birth control in males.

18. Why does a fish dies soon after it has been removed from water?

19. Give the use of a drenching gun to cattle farmer.

20. Give **one** reason why pregnant mothers are advised to feed on food rich in proteins.

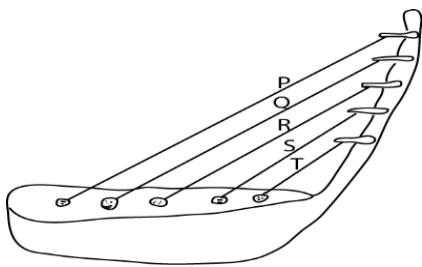
The diagram below shows part of a joint. Study and use it to answer questions 21 and 22.



21. Name the part marked X

22. Using letter W, label the part that reduces friction in the joints, apart from the synovial fluid.

23. State the method of controlling soil erosion where a farmer plough land across a slope
-
24. Which element of primary Health care helps to prevent tooth decay?
-
25. State the role of enzymes during food digestion.
-
26. Apart from camera and microscope, name any **one** other optical instrument that uses a lens.
-
27. Give one way in which mosses are similar to mushrooms in the way they reproduce.
-
28. Why is tepid sponging is an important First Aid to a person with high fever?
-
29. Why are sun bird able to suck nectar from the bottom of the flowers?



30. Give an example of mollusc which is a vector to human.
-
31. Name the human body system which eliminated wastes.
-
32. Give any **one** way in which a VIP latrine is different from an ordinary pit latrine.
-
33. Name the root crop which is attacked by the mosaic disease.
-
34. Give any **one** reason why sheep farmers carry out docking.
-
35. Apart from a flat iron, give any other one appliance used at home that changes electric energy to heat energy.
-
- 36. The diagram below shows a well-tuned musical instrument. The string P, Q, R, S and T are of uniform thickness. Use it to answer the question that follows**
- Why does string T produce sound of the highest pitch?
-
37. State any one way in which smoking affects the human respiratory system.
-
38. Give the importance of plants in a food chain.
-
39. Name the fungal-caused sexually transmitted disease, which is spread through poor hygiene.
-
40. State **one** reason why farmer stake tomato plants.
-

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. (a) give two examples of natural fertilizers

(i)

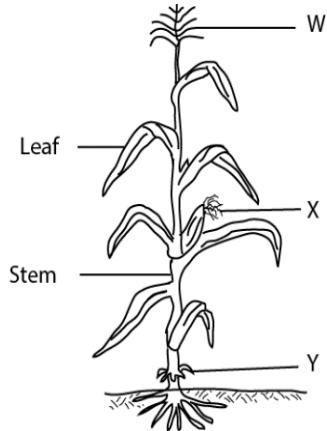
(ii)

(b) state any two ways in which natural fertilizers are better than artificial fertilizers.

(i)

(ii)

42. The diagram below shows a flowering plant, Study and use it to answer the questions that follow.



(a) To which group of flowering plants does the above plant belongs?

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

(c) State the importance of root marked Y to the plant.

(d) In which **one** way is part W different from X in their reproductive function?

43.(a) Give any **two** conditions in which women are vulnerable

(i)

(ii)

(b) State any **two** ways in which family members can care for vulnerable women.

(i)

(ii)

44.(a) Name the respiratory organ which are protected by the rib cage.

(b) What happens to the rib cage during the following process:

(i) breathing in?

(ii) breathing out?

(c) Give the use of oxygen we breath in

45. The table below shows diseases, the vectors that spread them and disease-causing germs. Study and complete it correctly.

Disease	Vector	Germ
Cholera	housefly
Yellow fever	Virus
.....	Infected cats	virus
River blindness	Blackflies

46.(a) Give the functions of each of the following part of a modern bee hive.

- (i) The brood chambers.....
 (ii) The honey chambers.....
 (b) Apart from being used as food, give two other ways in which honey is useful to people
 (i)
 (ii)

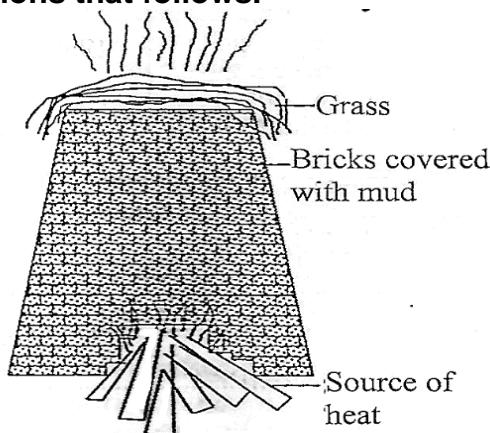
47. (a) What kind of food is made by green plants during photosynthesis?

.....
 (b) State any one raw material used by green plants for photosynthesis.

.....
 (c) How is chlorophyll important during the process of photosynthesis?

.....
 (d) Give one reason why photosynthesis does **not** take place at night.

48. The diagram below shows firing bricks in a kiln. Study and use it to answer the questions that follows.



(a) Name the source of heat energy used in the firing the bricks.

.....
 (b) Give any one reason why the bricks are covered with mud before firing starts.

.....
 (c) What is the importance of the grass put on top of the kiln during firing?

.....
 (d) State any one disadvantage of using the above method of firing bricks to the environment.

49. The table below shows part of human eye in A and that of a lens camera in B.

A	B
Iris	Shutter
Pupil	Film
Eye lid	Diaphragm
Retina	Aperture

For each of the parts of the human eye, write the part of the lens camera from B which performs a similar function.

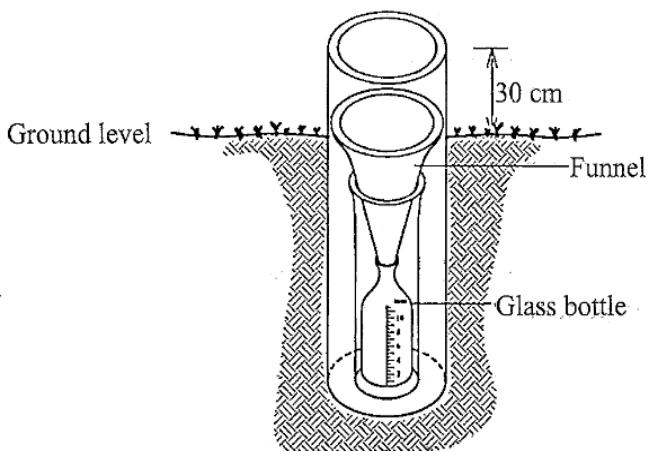
- (a) Iris
 (b) Pupil
 (c) Eye lid
 (d) Retina.....

50. (a) Which communicable disease shows sign and symptoms similar to that of tuberculosis?

.....
 (b) Name one cattle product through which tuberculosis can be spread to human beings

- (c) When is the vaccine against tuberculosis administered to babies?
- (d) Apart from immunization, give one other way in which the spread of tuberculosis can be controlled in human.
51. (a) Give any two ways in which alcohol is used in hospitals.
 (i)
 (ii)
- (b) State any two effects of alcoholism to an individual.
 (i)
 (ii)
52. (a) Apart from the respiratory gases and body wastes, name any other two materials carried in blood.
 (i)
 (ii)
- (b) Name the component of blood which transport oxygen in the human body.
- (c) Which disease-causing germ attacks the white blood cells in humans?

53. The diagram below shows a weather instrument. Study and use it to answer the questions that follow



- (a) Name the weather instrument shown in the diagram above
- (b) What is the use of the instrument above at a weather station?
- (c) Give a reason why people are advised to:
 (i) Put the instrument in an open ground when using it.
 (ii) Raise the instrument 30cm above the ground when using it.
54. (a) To Which class of vertebrates does a toad belong?
 (b) Give **one** way in which the breathing of a toad is different from that of a tadpole
 (c) State any **two** ways in which the jelly round the eggs of a toad is important.
 (i)
 (ii)
55. (a) Apart from ticks, name any one other cattle pest.

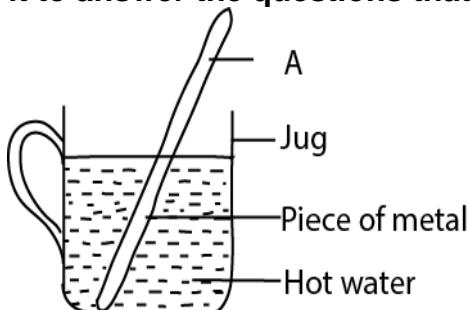
-
- (b) state any two diseases spread by ticks to cattle.
- (i)
- (ii)
- (c) Give any way in which the tick-borne diseases can be controlled.
-



PRIMARY LEAVING EXAMINATIONS

Science 2014

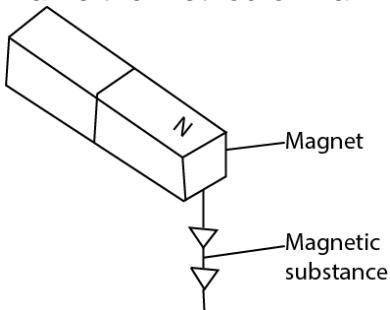
1. Which type of soil has rough and large particle?
.....
2. In which state of matter does heat travel slowest
.....
3. To which class of levers does a wheel barrow belong?
.....
4. Apart from labour, give **one** other requirement for starting a livestock farm.
.....
5. What kind of accident requires the use of splints in giving First Aid?
.....
6. Give any **one** exotic breed of sheep kept for wool production.
.....
7. Which sexually transmitted disease can cause blindness in babies?
.....
8. Name the human body organ that uses light for it to function.
.....
9. State **one** way in which echo can be reduced in a hall.
.....
10. **The diagram below shows a piece of metal dipped in a jug containing hot water. Use it to answer the questions that follow.**



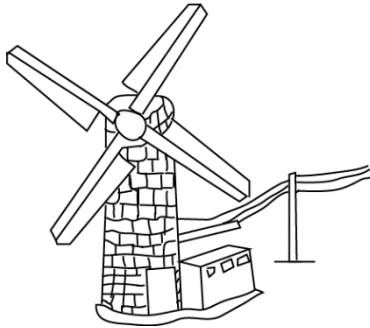
How does part A become hot yet it is not in hot water?

11. Give any **one** disadvantage of harvesting honey using fire
.....
12. How is BCG vaccine different from the polio vaccine in the way they are given to children.
.....
13. Give **one** reason why washing of hands after visiting a latrine is a good practice.
.....
14. Which process in plants has a similar function as sweating in humans?
.....
15. Apart from taking wrong dose, give one other way in which drugs are misused.
.....
16. Which condition in babies is shown by sunken spot on the head?
.....
17. Give **one** way in which plants benefit from animals for photosynthesis.
.....
18. How is sun-drying helpful in the preservation of food crops?
.....
19. Why is water grouped under renewable resource?
.....
20. Which mineral helps in formation of red blood cells in the human body?
.....

21. Apart from melting, state any one other physical change that takes place in the presence of
-
22. Name any one disease of rabbits that affects poultry birds.
-
23. Name the method of making a magnet shown in the diagram below



24. In which method of making water clean, do you first allow the impurities to settle at the bottom of the container?
-
25. Why does a coin thrown in a basin full of water appear to be nearer to the surface?
-
26. How is reproduction in whale different from that of fish.
-
27. Why is it important for government to collect information on human health?
-
28. State any **one** piece of advice you would give to a person who suffers from indigestion.
-
29. **The diagram below show how electricity is produced. Use it to answer the question that follows:**



What source of energy is used to produce the electricity?

30. Why does paraffin settle on top when mixed with water?
-
31. Give any way in which bacteria are useful to crop farmers>
-
32. Mention the group of birds to which a crested crane belongs
-
33. Which disease is spread to human by rats?
-
34. How is the function of the pulmonary vein different from that of other veins?
-
35. Which property of air enables you to drink soda using a straw
-
36. Why do plane mirrors produce regular reflection of light?
-
37. What name is given to a meal containing all food values in their right amount?
-

38. State one way in which married couple can avoid HIV/AIDS among themselves.

.....

39. Give one way in which the use of solar energy is good for environment.

.....

40. Apart from the number of body parts, state one other difference between Arachnids and insects

SECTION B

Questions 41 to 55 carry four marks each

41. (a) name two poisonous substances found in tobacco

(i)

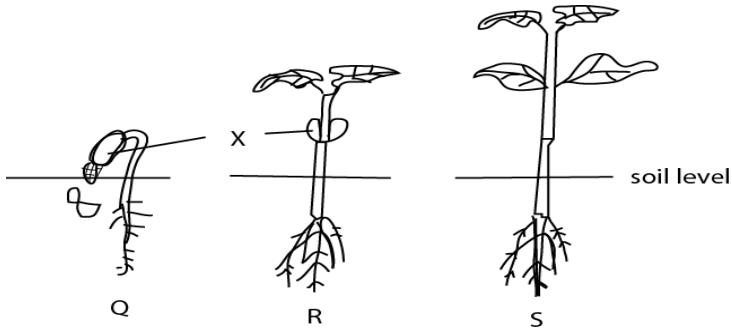
(ii)

(b) State any two effects of cigarette smoking by pregnant women to their unborn babies

(i)

(ii)

42. The diagram below Q, R and S show the stages of germination of a seed. Study and use it to answer the questions that follow.



(a) Name the part marked X:

.....

(b) How is the part marked X useful to the seedling at stage R.

.....

(c) Why is the part marked X useless at stage S?

.....

(d) What type of germination is shown by the seed.

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

Joints	Position in the body
Pivot joint
.....	shoulder
.....	Knee
Suture joint

44. (a) state any two agents of soil erosion

(i)

(ii)

(b) Give two ways in which soil erosion can be controlled in hilly areas.

(i)

(ii)

45. (a) what type of change takes place when an iron tool rust?

(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.

46. (a) Apart from egg eating, name any one other vice of poultry.

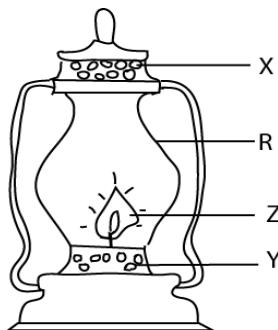
(b) Give any one cause of egg eating in poultry

(c) State any two ways of preventing the egg eating vice in poultry.

(i)

(ii)

47. The diagram below shows a kerosene lamp. Study and use it to answer the questions that follow



(a) Name the part marked with letter Z.

(b) Why is the part marked R made of glass?

(c) Give the importance of the parts marked X and Y when the lamp is in use.

X

Y

48. (a) Name the group of crops that are harvested year after.

(b) give any two example of crops that belong to the group you have named in (a) above

(i)

(ii)

(c) State one way in which the above crops are harvested.

49. The table below shows a group of animals in list A with their respiratory organ in list B.

List A	List B
Tilapia	Moist skin
Mosquito	Lungs
Frog	Gills
Dog	spiracles

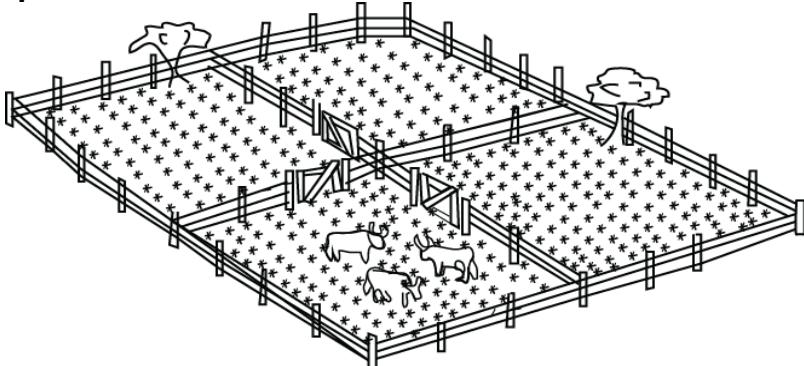
Write against each animal below, its respiratory organ from B.

- (i) Tilapia:
- (ii) Mosquito:
- (iii) Frog:
- (iv) Dog:

50.(a) In the human reproductive system, state where each of the following processes take place:

- (i) Implantation:
 - (ii) Production of sperms:.....
 - (iii) Production of female hormones:.....
- (b) Give any one use of the placenta to the fetus during pregnancy

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



(a) Name the system of grazing cattle shown in the diagram above.

(b) Besides restricting the animals, give two other advantages of this system of grazing cattle.

52. (a) Give two ways in which Primary Healthy care (PHC) is an important program in the community.

- i.
- ii.

(b) state any two roles of school healthy committee.

- (i)
- (ii)

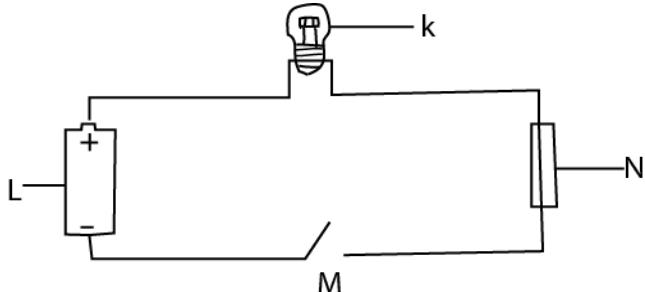
53. (a) What name is given to a practice of growing crops and trees together on the same piece of land?

(b) State any two ways in which crops benefit from trees when they grow together.

- (i)
- (ii)

(c) Give any one proper method of harvesting trees in the practice named in (a) above

54. Study the diagram of an electric circuit below and use it to answer the questions that follow



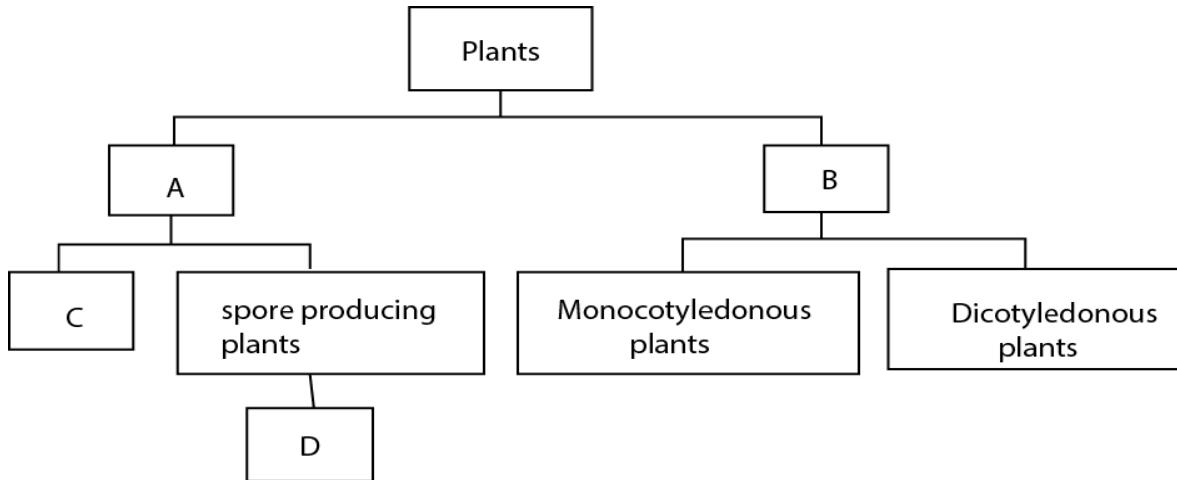
(a) Name the parts marked K and N

- (i) K:
- (ii) N:

(b) State the energy change that takes place at L when M is closed

(c) Give any one form of energy produced at K when M is closed

55. The table above shows classification of plants. Study it carefully and use it to answer the questions that follow.



**Science 2013
section A**

1. Give any one example of a swimming bird.

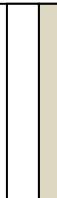
2. Name the animal product used in leather industry.

3. State any one property of matter.

4. Name the part of the human eye that works like the film in a camera.

5. In which way is the message in the sign post below helpful to school children?

SAY NO TO SEX



6. Give any way in which a single fixed pulley is used in a school.

7. Name the body organ which helps a person to know whether there is enough sugar in tea or not.

8. Give any one advantage of pruning trees.

9. Which method of heat transfer helps farmers to dry their harvested crops?

10. How does a fish benefit from its slippery body?

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

The diagram below shows a garden tool. Use it to answer questions 12 and 13





12. Name the garden tool above.

13. How is the garden tool above important to farmers?

14. Which deficiency disease is caused by lack of vitamin d in children `s diet?

15. Why is the water obtained through filtration not necessarily safe for drinking?

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

17. How does leaching reduce soil fertility?

18. Why is it advisable to leave the pit of a VIP latrine open?

19. Name the cattle disease whose sign is a swollen and painful udder.

20. In which part of the female reproductive system does fertilization take place?

21. Why is the left side of the heart able to pump blood to most body parts?

22. State any one way in which trees are able to reduce air pollution.

23. In the space provided below, draw a lens used to correct short sightless.

24. How is a safety pin in a first –aid kit important?

25. In which type of change are the properties of the substance formed permanently different from those of the original one?

26. How is the function of stomata in a leaf similar to that of gills in a fish?

27. Which components of soil is used by plants to make their food?

28. Which structures enable the trachea to remain open all the time?

29. Four bar magnets marked 1, 2, 3 and 4 were placed next to each other as shown below.
They attracted each other.

N	1
2	3
4	

Name the pole of magnet 4 marked with letter X

30. Apart from brushing, how else can dental carries be prevented?

.....

31. State any one way in which friction in moving parts of a machine can be reduced.

.....

32. Give any one way in which yeast is useful to people.

.....

33. Apart from making food, mention one other use of leaves to plants.

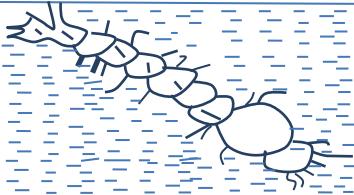
.....

34. State any one characteristic of the images formed by plane mirrors.

.....

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

The diagram below is of a mosquito larva .use it to answer questions 36 and 37



36. Name the mosquito which develops from such a larva.

.....

37. What disease does the mosquito you have named above transmits to human beings?

.....

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

.....

39. Apart from running windmills, give one other way wind is used as an energy resource.

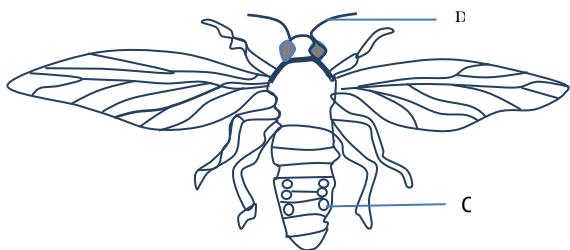
.....

40. How do the silvery walls of a vacuum flask reduce heat loss?

SECTION B: 60 MARKS

Question 41 to 55 carry four mark each

41. The diagram below shows an insect. Use it to answer the question that follow.



(a) Name the parts marked C and D

(i) C

(ii) D

(b) State the function of the part marked D

.....

(c) Why would the insect above die when the whole of its abdomen is dipped in oil?

42 (a) Apart from the lack of conditions necessary for germination, give any two other factors that can make a seed fail to germinate.

(i)

(ii)

(b) Write down any two ways farmers can control pests in the garden without using chemicals

(i)

(ii)

43(a) Give any two advantages of modern beehive.

(i)

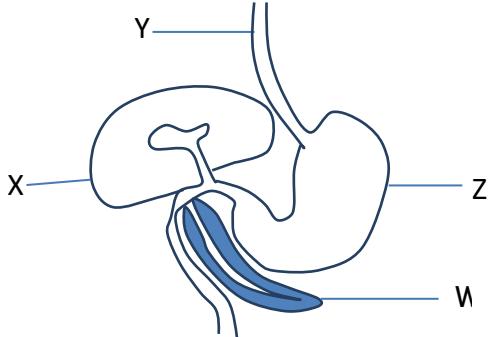
(ii)

(b) write down two things a bee-keeper should consider before a salting up beehives.

(i)

(ii)

44. The diagram below is part of the human digestive system . Use it to answer the questions that follows



(a) Name the parts marked Y and W

(i) Y.....

(ii) W.....

(b) State the functions of the parts marked Z

(c) Give any one disease that affects the parts marked X

45. Match the diseases in list A with the system and symptoms in the B

A

Polio

B

swollen neck

Measles

stiffness of muscle

Tetanus

paralyzed tissues

Diphtheria

skin rash

(a) Polio.....

(b) Measles.....

(c) Tetanus.....

(d) Diphtheria.....

46. (a) Give any one two ways which drug dependence can affect an individual

(i)

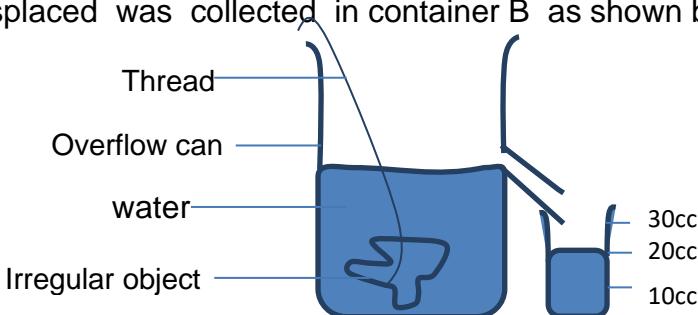
(ii)

(b)State two ways in which an individual can void drug dependence

(i)

(ii)

47. An irregular object was lowered into an overflow can A containing water. he water it displaced was collected in container B as shown below.



(a) What is the volume of the irregular object?

(b) Calculate the density of the irregular object if its mass is 60 g

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

P	Q	R
Toad	Chameleon	Rat
Newt	Snake	Monkey
Frog	Lizard	Cow

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

(b) How is the reproductive in the animals in list P similar to those in list Q?

(c) Which list has warm blooded animals.....

(d) Why would you place a tortoise in list Q?

49. (a) Name any one organism that makes fresh meat go bad.

(b) State any three ways of preventing fresh meat from going bad

(i)

(ii)

(iii)

50(a) Name the human body organ where each of the following takes place:

(i) Filtration of blood

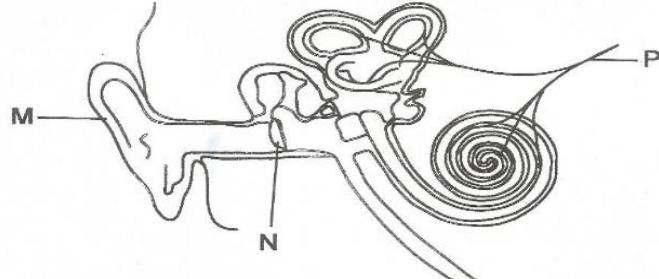
(ii) Blood gets oxygen while carbon dioxide is removed.

(b) Give the use of the following components of blood in the body

(i) White blood cells.....

(ii) Blood platelets.....

51 Study the diagram of the human ear above and use it to answer the questions that follow



(a) Name the parts marked M and N

(i) M.....

(ii) N.....

(b) Give the function of the part marked P.

Use letter B to show the part of the ear responsible for balancing the body

52 (a) Name any two water –borne diseases

(i)

(ii)

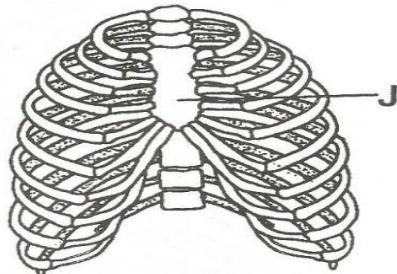
(b) In which two ways can water –borne diseases be prevented in the community?

(i)

(ii)

53. The diagram below shows part of the human skeleton. Use it to answer the questions that follow

(a) Name the part marked J



(b) State any two delicate body organ protected by the part of the skeleton shown

(i)

(ii)

(c) How is the part of the human skeleton shown above used during breathing out?

54(a) Write down any two activities and two activities that can be done by an individual to promote personal hygiene

(i)

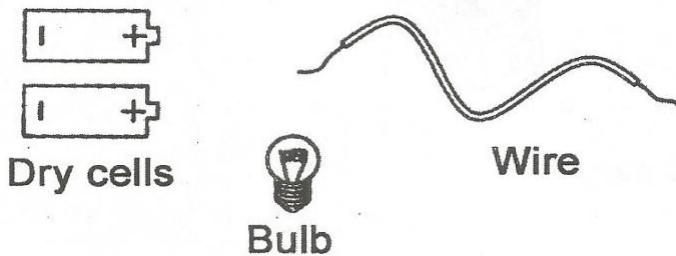
(ii)

(b) State two ways community members can promote sanitation in their areas.

(i)

(ii)

55. Arrange the parts of an electric circuit below by drawing to show a complete circuit.



(i) Name the group of plants shown by the following letters:

A:

B:

C:

(ii) Give any one plant that belongs to the box labelled D

Science 2012

1. Give any one example of a root tuber

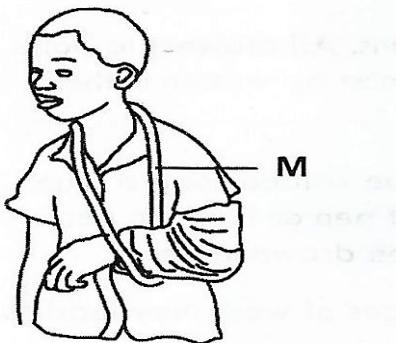
2. State one disadvantage of keeping finger nails long.

3. What is the importance of including calcium in chicken feed?

4. What is the use of a wedge as a simple machine?

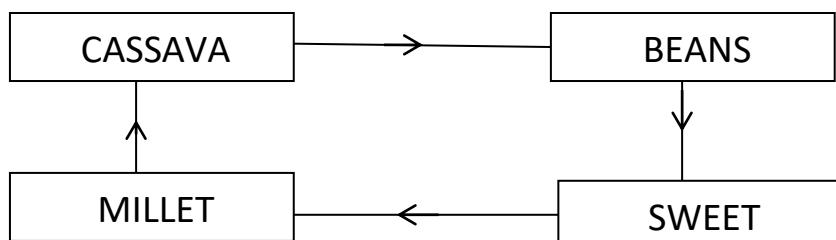
5. Name the type of lens used to correct long sightedness.

The diagram below shows a person with an injury .Use it to answer question 6



6. How useful is the structure marked **M** to the injured person?
7. Apart from mosses, give one other example of a spore bearing non-flowering plant
8. Name any one mammal that lives in water.
9. Give a reason why people keep cats in their homes.
10. Why does a farmer cut off leaves of a banana sucker before planting it?
11. Apart from pasteurizing, give any **one** way milk can be prevented from going bad.
12. Why is it important for a husband and his wife to be treated together if they have got
13. Why do farmers carry out de -beaking in poultry farms?
14. State any one habit which helps to promote oral health.
15. State one use of soil to earthworms.

The diagram below shows a crop rotation cycle



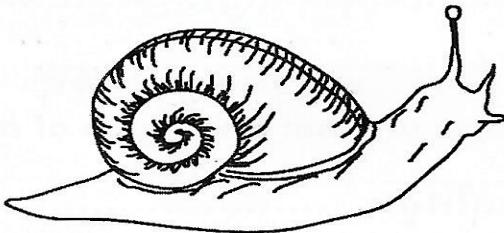
16. What is the importance of beans in this cycle to the rest of the crops?
17. Which communicable disease in human affects both the skins and the skeletal system?
18. Apart from carbohydrates, name one other class of food that gives the body energy.
19. In which way is the sun important in the formation of rain?
20. State any one method used to make dirty water clean.
21. How does a sweater help to keep a person warm during cold days?

The diagram is a head of a bird .use it to answer question 22



22. What does a bird with this type off beak eat?
.....
23. Give any one effect of poor disposal of human wastes in the environment.
.....
24. Apart from the egg stage, at what other stage of development is a housefly not active?
.....
25. Why does a clay-made charcoal stove use less charcoal than a metallic one?
.....
26. Apart from production of eggs (ova), mention one other use of the ovaries in the human body.
.....
27. State one way in which a child gets natural immunity
.....
28. State the injury that results from tearing of muscles.
.....
29. Which gas is used by food manufacturers for preserving drinks like sodas?
.....

The diagram below is of a common animal. Use it to answer question 30



30. Which disease does the above animal spread humans?
.....
31. Why are the legs of a person who has fainted raised higher than the head as a way of giving first aid?
.....
32. What name is given to a place where seedlings are grown before transplanting?
Nursery bed.
.....
33. Which part of the human ear equalizes pressure in and outside the ear?
.....
34. Name one other disease caused by fungi in human s apart from ring worm.
.....
35. What class of food is digested in the stomach?
.....
36. Give any one advantage of castrating farm animals.
.....
- 37 in the space below draw a simple diagram of a fibrous root system.
.....
38. How are plastics and glass materials dangerous to soil?
.....

39. Apart from liquids, name one other state of matter through which heat is transferred by convection.

.....

40. In which human body organ does gases exchange take place?

In the lungs

.....

SECTION B: MARKS 60 MARKS

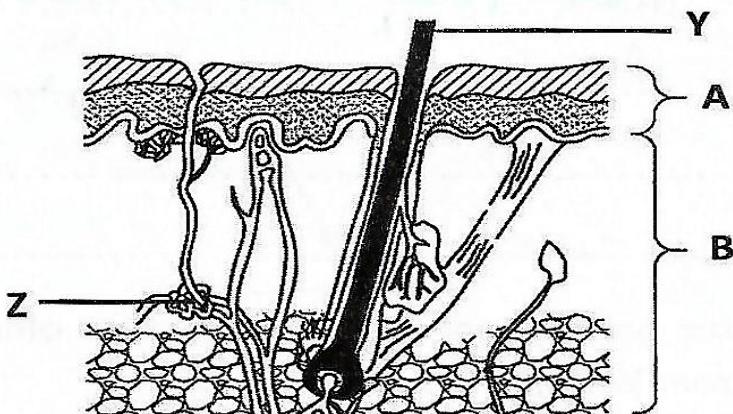
41(a) Gives any two examples of a physical change

.....

(b) State two characteristics of a chemical change

.....

The diagram below of a human skin. Use it to answer questions 42



42.(a) Name the layers A and B

.....

(b) Give the function of the part labelled Y and Z

.....

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

.....

(b) Write any two agents of pollination

.....

44. (a) Give any two disadvantages of keeping local breeds of poultry

.....

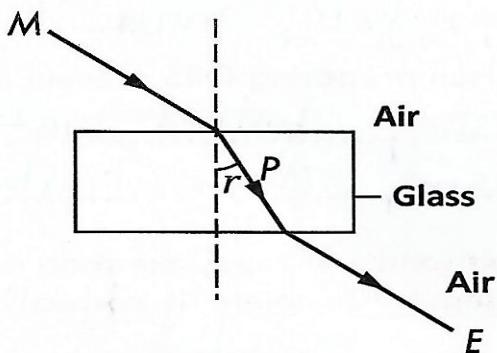
(b) Apart from getting money, give any two ways a farmer benefits from keeping poultry.

.....

45. Match each animal in A with the correct group to which it belongs in B

A	B
Chameleon	Mammals
Toad	Birds
Bat	Reptiles
Ostrich	Amphibians

The diagram below shows how light passes through a glass block.



Study and use it to answer question 46.

46. (a) Name the rays M and P

(b) Name the angle marked **P**

(c) Give a reason why ray **P** bend as shown in the diagram

47(a) Give one reason why dehydration is dangerous to humans

(b) In which way is oral re hydration solution (ORS) a good treatment for diarrhea?

(c) Apart from taking ORS, how else can one prevent dehydration?

(d) How can a person preparing ORS prevent it from contamination?

48. The table below, shows source of food, the food nutrients in it and the related deficiency disease. Complete it correctly.

Source of food	Food nutrient	Deficiency disease
Fruit	Vitamin C	Scurvy
Beans	proteins	Kwashiorkor
Fish liver, Eggs, carrots	vitamin	Night blindness
Iodized salt	Iodine	Goiter

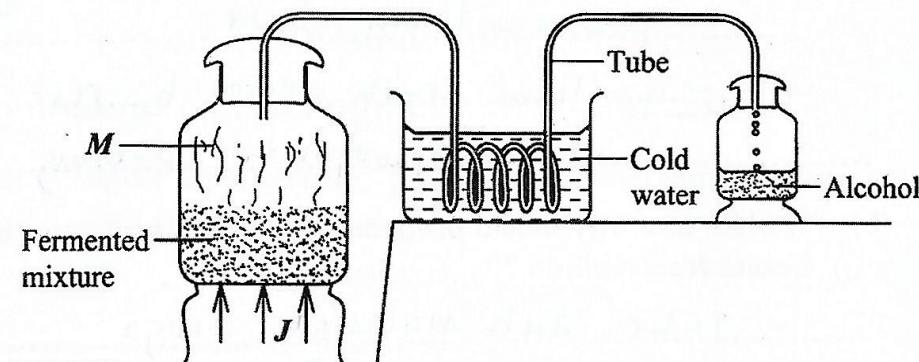
49. (a) Which type of blood vessels return blood to the heart?

(b) What is the function of valves in the blood vessels during blood circulation?

(C) What type of blood is carried by most blood vessels with valves?

(d) Give any one waste materials carried by blood.

The diagram below shows one of the methods of preparing alcohol. Study and use it to answer questions 50.



50 (a) Name the methods used in the diagram

(b) What do the arrows labeled **J** represent?

(c) Why is the tube passes through cold water?

(d) What process forms **M**?

51(a) Apart from antenatal care, give two other ways of caring for pregnant women.

(b) In which **one** way should pregnant women protect their unborn babies from malaria?

(c) Why are pregnant women advised not to smoke?

52. (a) Name the force that brings down all objects thrown up.

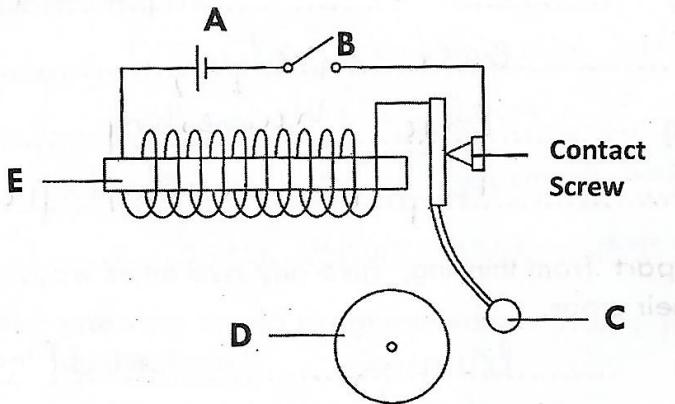
(b) (i) When a piece of paper and as rubber dare dropped from the same height, which one reaches the ground first?

(ii) Give a reason for your answer in(b) (i) above.

(c) Why do some objects float on water?

53. (a) State any two reasons why farmers thin their crops

55. Study the diagram of an electric bell below and use it to answer question 55.



55(a) Name the part marked A and C

(a)

(b)

(b) What will happen to E when B is closed

(C) How useful is part D on the electric bell?

**PRIMARY LEAVING EXAMINATIONS
Science 2011**

1. Name the disease which is spread by a female anopheles mosquito

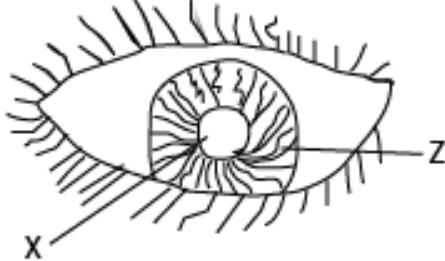
.....
2. Which form of energy changes ice to water?

.....
3. Give a reason why drugs should be kept away from children.

.....
4. Name the class of simple machines to which an axe belongs.

.....
5. Write down any one example of a plant fibre.

The diagram below is of a human eye. Use it to answer question 6 and 7



6. Name the part marked with letter X

.....
7. Give the use of the part marked with letter Z.

.....
8. State one types of accidents whose First Aid is to put the affected part of the body in cold water.

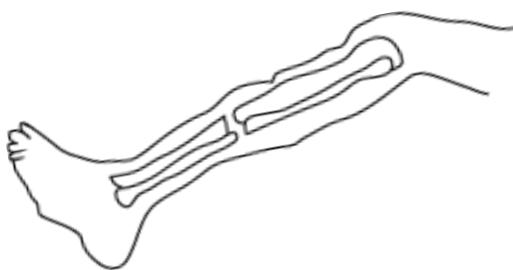
.....
9. Why should children be given food which is rich in proteins?

.....
10. Give one way in which plants depend on soil.

.....
11. Give one way in which the umbilical cord is important to the developing focus in the uterus.

.....
12. Name any one characteristic of seeds which are dispersed by wind.

The diagram below shows a fracture. Use it to answer question 13.



13. What type of fracture is shown in the diagram above?

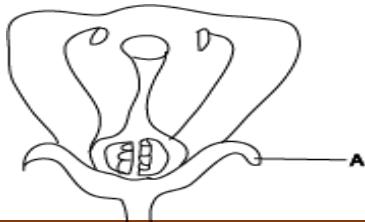
.....
14. State the compass direction in which a freely suspended magnet will rest.

.....
15. What is the use of gills in a mushroom?

.....
16. Give one way in which P7 pupils can promote immunization in their families

17. Apart from pregnant mothers, young and disabled people, give any one other group of people who need special care in a family.
-
18. In which way is a fuse similar to a switch in a simple electric circuit?
-
19. Why should a nurse shake the clinical thermometer before it is used on another patient?
-
20. State one way in which a farmer can control crop disease without using chemicals.
-
21. Name the turning point of a machine.
-
22. Why are ventilators usually put on a higher level than doors and windows in a house?
-
23. How do conifers differ from other non-flowering plants?
-
24. What is the importance of a chimney in a kitchen?
-
25. Apart from getting food, give any one other way in which birds benefit from plants.
-
26. What type of skeleton does a cockroach have?
-
27. What is the importance of water during seed germination?
-
28. How does a human body cool itself on a hot day?
-
29. How is the fertilization of the eggs of amphibians different from those of reptiles?
-
30. How can the pitch of a string of a musical instrument be changed?
-
31. Mary shouted in a big house and she heard the same sound repeated. Name the repeated sound she heard.
-
32. Give one disadvantage of using herbicides (chemicals) to kill weeds in crop gardens.
-
33. State an example of a crop which is a legume.
-
34. Give any one way in which the human liver can be kept in proper working condition.
-
35. State any one way in which termites depend on soil.
-
36. A man lives with two sons and a nephew. what type of family is this?
-
37. Name any by-product of respiration.
-
38. State the type of change that takes place when a baby grows to an adult.
-

The diagram below is a section of a flower. Use it to answer question 39 and 40



39. Name the part marked A

.....

40. Use letter P to show the part that produces the male reproductive cells.

SECTION B : 50 MARKS

41(a) Give **one** way in which primary health care (PHC) is important to a community.

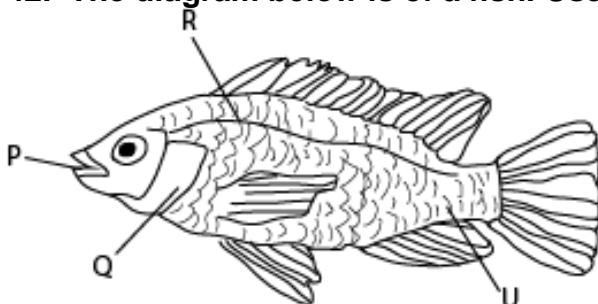
(b) State the elements of primary Health Care which is promoted by each of the following activities:

(i) Sweeping the kitchen.

(ii) Putting drops of polio vaccine into the mouth of a child.

(iii) Eating a balanced diet.

42. The diagram below is of a fish. Use it to answer the follow



(a) Name the part labelled R

(b) Give the function of the part labelled P and U

(i) P

(ii) U

(c) What structure is covered by the part labelled Q?

43(a) states two differences between birds and mammals

(i)

(ii)

(b) Give two similarities between birds and mammals

(i)

(ii)

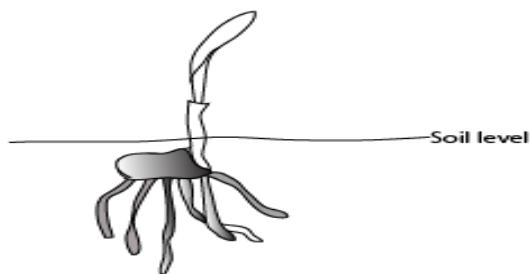
44. The diagram below shows a germinating seed. Use it to answer the questions that follow

(a) State the type of germination shown above.

(b) Where does the seed above store the food used during germination?

(c) Give an example of a crop with the same types of germination.

(d) Apart from moisture, state any one other condition necessary for seed germination.



45. (a) state any **two** natural causes of environmental degradation

(i).....

(ii).....

(b) Give two human causes of environmental degradation

(i)

(ii)

46. (a) Which part of the body is affected by each of the following diseases

(i) Scabies

(ii) Trachoma

(b) State the vector which spreads each of the following disease

(i) Bilharzias.....

(ii) Rabies.....

47. (a) Mention **two** primary sex changes that happen in boys

(i).....

(ii).....

(b) Give two secondary sex changes which happen in both boys and girls

(i).....

(ii).....

48. (a) Apart from millets, wheat and sorghum, give any one other cereal food crop.

(b) Mention any one common pest that that destroys cereals crops

(c) Give any two reasons why cereal crops are dried before storing

(i).....

(ii).....

49. Apart from a worker bee, mention two other types of bees found in a bee hive.

(i).....

(ii).....

(b) Write down two materials collected by a worker bee from the environment

(i).....

(ii).....

50. (a) What form of energy does a ball have before it is kicked?

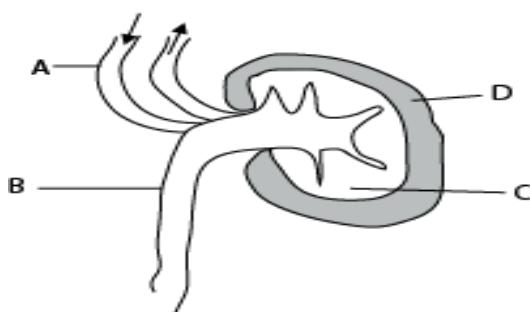
(b) What energy change takes place immediately a ball is kicked?

(c) Give **two** forms of energy produced by the ball as the goal keeper catches it

(i).....

(ii).....

51. **The diagram below is a section of human kidney. Use it to answer the questions that follow.**



(a) Name the part marked with letter B and **C**

(i) **B**

(ii) **C**

(b) What happens to blood in the part marked with letter **D**

(c) How is part A important to the kidney?

.....
52.(a) Give any two reasons why it is important to wash hands before eating food.

(i).....
(ii).....

(b) Apart from washing, mention any two other activities one can do to maintain personal hygiene.

(i).....
(ii).....

53.(a) Name two natural resources in the environment that enable green plants to make their food.

(i).....
(ii).....

(b) What is the name of the process in (a) above?

(c) Which gas is given off during this process?

54. (a) Name any two products got from sheep.

(i).....
(ii).....

(b) What does shearing refer to in sheep rearing?

(c) How can a farmer control pneumonia in sheep?

55.(a) What force makes a pencil to reduce in length as one writes?

(b) Name any one form of energy produced by the force in (a) above as one writes.

(c) Give any two disadvantages of the you have named above to the writer

(i).....
(ii).....

SCIENCE 2010

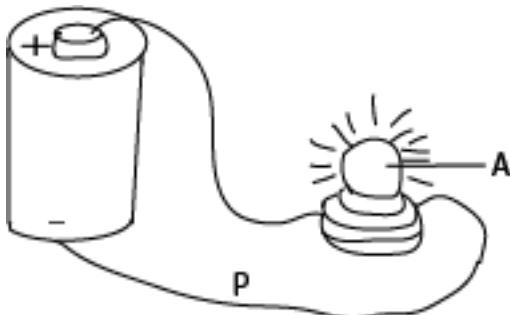
SECTION A (40 MARKS)

1. Name the sense organ for hearing.

.....
2. Give one item used for cleaning hands after visiting a latrine or toilet.

.....
3. State one way in which rain may be a disadvantage to a crop.

.....
The diagram below is of a simple circuit. Use it to answer questions and 4 and 5

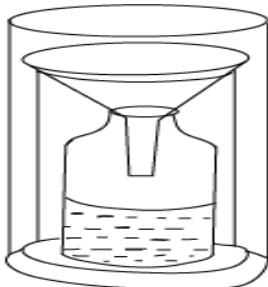


4. Draw an arrow on line P to show the direction of the flow of electricity.

5. Apart from light, which other form of energy is produced at A?

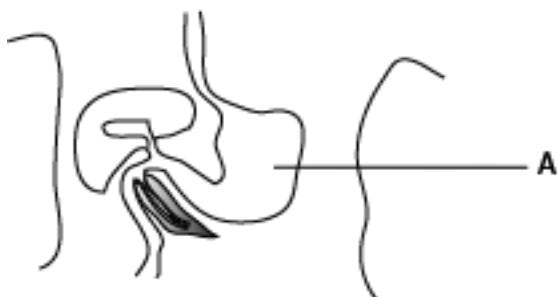
6. What is the importance of dipping cattle?
7. Write down one bad behavior which is a result of drug abuse.
8. Name one type of seed dispersal.
9. Sunbirds visit flowers to get nectar, how do plants benefit from these birds?
10. Give one way in which the cause of a scald is similar to that of a burn.
11. Name the best soil for making pots.
12. Write down one block in a food path.
- 13 Give one way in which health education is important in controlling over population.
14. How can a farmer make use of cow dung produced by his animals?
15. State one way in which hens are important in prevention of deficiency diseases in man.
- 16 Arrange the following organisms in the correct order of a food chain.
Caterpillar → dog → leaves → bird
17. Why is a person with hook worms likely to suffer from anemia?

The diagram below is a weather instrument. Study it and answer question 18



18. What is the use of the instrument in a weather station?
19. Give a reason for keeping Ebola victims away from other people.

The diagram below part of the human digestive system. Use it to answer question 20



20. Name the class of food which is digested in the part marked A.
21. Write down one way in which a primary seven pupil can help in the control of cholera in a community.

22. Give one way in which the preservation of millet and fish differs.
-
23. State one way of controlling Nagana in an area.
-
24. Give one example of a plant with prop roots.
-
25. Name the type of family where there are parents and their biological children only.
-
26. Write down one function of joint in a human body.
-
27. You are a health prefect in your school. Give one activity you would do during a health parade.
-
28. How is wind useful to human beings?
-
29. Why is mercury used in a thermometer instead of water?
-
30. State one natural source of sound energy.
-
31. Write down the function of tests in a human reproductive system.
-
32. Give the difference between river blindness and night blindness
-
33. How is a thermos flask helpful in a home?
-
34. A part from absorption of water and mineral salts one other use of roots to a cassava plants.
-
35. State one effects of heat on a metal
-
36. How does mulching help to keep moisture in the soil?
-
37. What determines the size of the image in a pinhole camera?
-
38. Give one way in which energy from animals can be used.
-
39. Write down the first Aid you would give to a person who has been bitten by a poisonous snake on the lower part of the leg.
-
40. Why does a coin sink when it is placed in a basin full of water?
-

SECTION B (60 Marks)

41. (a) Name one natural and artificial source of light.

(i) Natural.....

(ii) Artificial.....

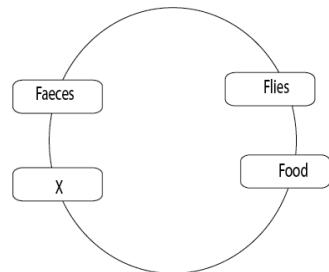
(b) Why is the moon not regarded as a source of light?

(c) Give one way in which reflection of light is important to man.

The diagram below shows how disease can be spread through the 4Fs



Use it to answer question 42.



42.(a) Give the word which should be in the box marked X

(b) name two activities which can be done to avoid the spread of diseases through food.

(i).....

(ii).....

(c) What structure on the body of fly makes it spread diseases?

The diagram below shows one of the methods of grazing goats in Uganda.

Study it and use it to answer question.



43.(a) Name the method of grazing goats shown in the diagram.

(b) Give two advantages of using the methods shown in the diagram.

(i).....

(ii).....

(c) write down one disadvantage of using this method.

44.. Match the items in list A with their function in list B

List A	List B
Red blood cells	Stop bleeding when the skin is cut.
Arteries	Carry oxygen around the body
Valves	Carry blood away from the heart
platelets	Prevent back flow of blood in veins

(a) Red blood cells

(b) Arteries.....

(c) Platelets

(d) Valves.....

45. (a) Give two benefits of planting trees in your school compound

(i)

(ii)

(b) What two things can you do to protect plants in your school compound?

(i)

(ii)

46. (a) Name the type of cattle kept for milk production.

(b) Give one example of exotic breeds of cattle which are the best for milk production.

(c) Write down two activities a farmer should do in order to get clean milk from a cow.

(i)

(ii)

47. (a) State one primary health care activity children can do to help their mothers when cooking.

(b) Write down three health care activities that can be provided to the elderly in our homes.

(i)

(ii)

(iii)

48.(a) Name two scavengers in the environment

(i)

(ii)

(b) In which way are scavengers useful in the environment?

(c) Give the difference between a predator and a scavenger.

49. (a) Which organ removes urine from the body?

(b) To which body system does the organ that removes urine from the body?

(c) Where does urine collect before it is removed from the body?

(d) Name one substance found in urine.

50. (a) Name two water resources in Uganda that provide us with proteins.

(i)

(ii)

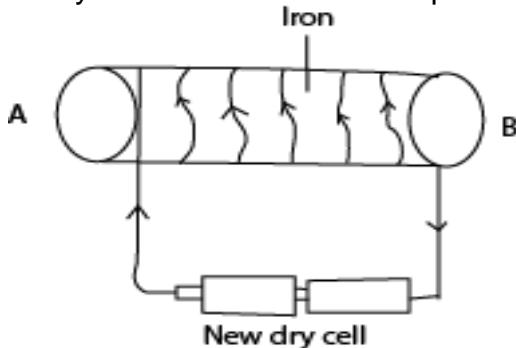
(b) Give two human practices that can lead to the destruction of such resources.

(i)

(ii)

The diagram below shows a method of making a magnet.

Study it and use it to answer question 51.



51(a) Name the method of making a magnet shown in the diagram

(b) What pole will the part marked A become?

(c) What would you do to the dry cells in order to increase the strength of the magnet?

(d) Apart from the method shown in the diagram, name any other method of making a magnet.

52.(a) Name the germ that cause HIV/AIDS.

(b) Apart from having sex with an infected person, write down two other ways in which one can get the germ that causes HIV/AIDS

(i)

(ii)

(c) ABC is a way of controlling the spread of the germ that causes HIV/AIDS .what does A stand for?

53.(a) Apart from killing people, give two other dangers of lighting

(i)

(ii)

54.In an experiment, salt is mixed with water stirred until it dissolves to make a solution,

(a) What do the following act as in the experiment?

(i)Salt.....

(ii)Water.....

(b) Name any other substance that could be used instead of salt.

(c) How can salt be removed from the solution?

55. Why are vaccine used in the prevention of certain diseases?

(b) How is the measles vaccine given to a baby?

(c) Apart from immunization, state two other ways in which a baby's immunity can be improved.

(i)

(ii)

Science 2009

1. Name one domestic used for protection in a home.

2. Give the function of a micropyle to a germinating seed.

3. What general name is given to animals with a backbone?

4. Name the type of preservation where slow burning fire is used to dry food

5. Give one pest which destroys the roots of root crops in gardens

6. What state of matter is smoke?

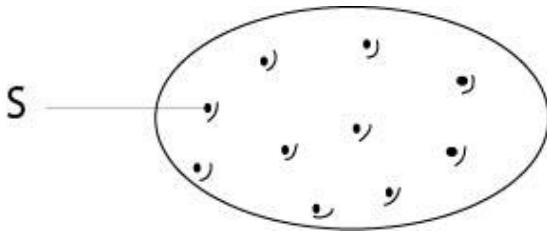
7. Give a reason why a tsetse fly is dangerous to cattle.

8. How is reproduction in beans different from that in ferns?

9. Write activity that can help to reduce snake bites in homes.



10. The diagram below is of an Irish potato tuber. Use it to answer the question that follows.



What is the use of the part marked S?

.....
11. Why is immunization of children carried out free of charge in Uganda?

.....
12. Write one reason why people working in dirty areas should wear gumboots.

.....
13. Why should young girls avoid getting pregnant?

.....
14. What type of farming should a farmer use in order to harvest both crops and wood?

.....
15. The diagram below shows a method of making water clean.

Use it to answer the question that follows.



Name the method used above.....

.....
16. Why do projects thrown in the air fall back on the ground?

.....
17 Why should communities fence open spring wells?

.....
18. State one ways of preventing athlete's foot disease.

.....
19. Why is an ostrich unable to fly?

.....
20 Apart from trachoma, name one other eye disease.

.....
21. State one-way holes in the soil created during brick-making may contribute to the spread of malaria in an area.

.....
22. State one natural cause of a family failing to have enough food.

.....
23. Name one material used to guard against electric shocks.

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

.....
25. Name one activity carried out by farmers to remove unwanted plants from their gardens.

26. Give one way in which claws are important to birds.
27. To which group of simple machines does a ladder leaning against a wall belong?
28. Why is it a bad practice to store cooked food in room where domestic animals are kept?
29. Write one method of rearing cattle used in towns.
30. State one similarity in structure between a snail and earthworm.
31. Apart from rock particles and living organisms, name other part of soil.
32. What happens when an opaque object is placed in the path of light?
33. Name the kind of energy possessed by water at 100°C .
34. Give one factor to be considered when choosing a site for a school garden.
- 35. The diagram below shows a stage of development of an animal.
Use it to answer the question that follows.**

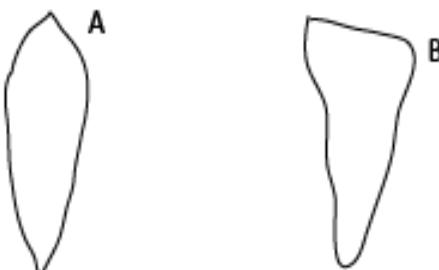
Name one animal that develops from this stage.



36. State one common problem which adolescents face
37. Why is breast feeding very important to a mother?
38. How do plants reduce the amount of carbon dioxide in the atmosphere?
39. Name the part of a flower that holds the anther head.
40. Give one reason why people who get badly burnt are given plenty of fluids

SECTION B (60 MARKS)

41. The following diagram shows two types of teeth in human beings



Use it to answer question that follow.

(a) Name the type of tooth marked:

- (i) A.....
- (ii) B.....

(b) Give the use of each of the teeth in the diagram above.

- (i) A.....
(ii) B.....

42.(a) How does a guitar produce sound when its string is plucked?

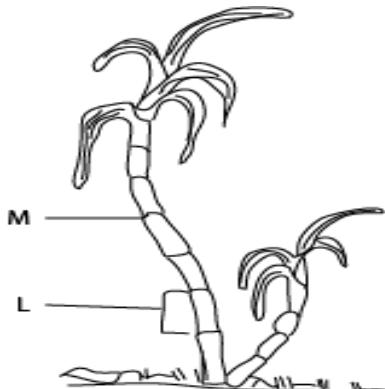
.....
(b) How can the pitch of a guitar be changed?

.....
(c) Name one way of storing sound.

.....
(d) Give a reason why sound cannot travel through a vacuum.

43. The diagram below is of a sugarcane plant.

Use it to answer questions that follow.



(a) Name the part marked with letters M and L

- (i) M.....
(ii) L.....

(b) What food value is got eating sugar cane?

.....
(c) How is such a sugarcane plant propagated

44.(a) State one way in which a nursery bed is important to a farmer.

.....
(b) Name two vegetable crop commonly grown in a nursery bed

- (i).....
(ii).....

(c) Give one way in which a farmer can care for crops in nursery bed.

45.(a) Write one dangerous substance found in tobacco smoke.

.....
(b) Give the meaning of each of the following:

- (i) active smoking.....

.....
(ii) passive smoking.....

.....
(c) What piece of advice can you give to smokers to help them to stop the habit?

46. The density of sand is 3 g/cm^3 . Its mass is 270 grams. Find its volume.

47. What is First Aid?

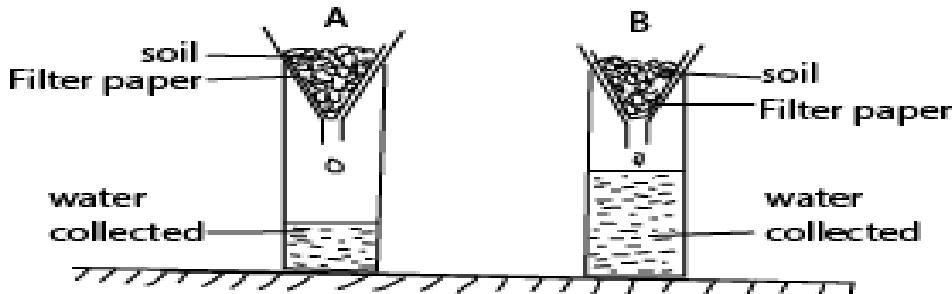
(b) List any two things found in a first Aid box.

(i).....

(ii).....

(c) State why every school should have a First Aid box.

48. Equal amount of water were poured into soil A and B shown in the diagram below:



(a) From which soil did more water drop?

(b) State why more water dropped from soil you have named in (a) above.

(c) Name the type of soils in B

(d) Give one use of the type of soil in A

49.(a) Write two activities that help to promote good sanitation in a home

(i)

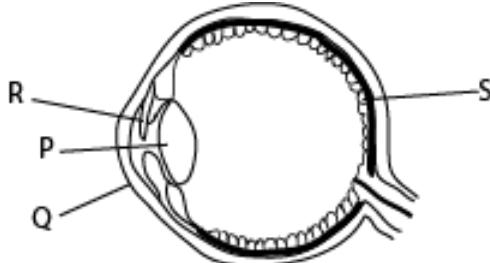
(ii)

(b) Name two diseases that may attack a family due to poor sanitation.

(i).....

(ii).....

The diagram below shows a human eye. Study it and use it to answer question that follow.



(a) Name the part marked:

(i) P

(ii) Q

(b) What is the function of the part marked R ?

(c) which letter on the diagram shows where images are formed

51. the table below shows weather instrument and what they measure.

Match the items in list A and those in list B

List A	List B
Wind vane	Amount of rain
Barometer	Speed of wind
Rain gauge	Amount of air pressure
Anemometer	Direction of wind

- (a) Wind vane.....
(b) Barometer.....
(c) Rain gauge.....
(d) Anemometer.....

52.(a) What name is given to the process that turns sugar to alcohol?

.....
(b) Apart from making alcohol, state two other ways the process you named in (a) can be useful to human beings.

- (i)
(ii)
(c) Name the fungus used in this process.

53.(a) Name the process that takes place in the air sacs of a human lung.

.....
(b) What prevents the trachea (wind pipe) from closing during breathing?

.....
(c) Give two products found in the air we breathe out.

- (i)
(ii)

54.(a) State the function of each of the following structure in the human skeleton.

(i) Ligament.....
(ii) Tendon.....

(b) Give one example of a long bone in a human skeleton.

.....
(c) Name one disease that affects a human skeleton.

55. (a) Name the germ that causes gonorrhea

.....
(b) Give one sign of gonorrhea infection in a newly born baby

.....
(c) How does gonorrhea infection increase the chances of a person getting HIV/AIDS?

.....
(D) How can a person avoid getting gonorrhea?

PRIMARY LEAVING EXAMINATION

Science 2008

SECTION A (40marks)

1. Name one body organ in man that makes use of light energy from the sun.
-
2. Name one cold- blooded vertebrate that has a body shell.
-
3. Mention any one way in which a biological change is similar to a chemical change.
-
4. How can a person fruit plant benefit from growing near a mango tree?
-
5. Write down the vector that spreads elephantiasis.
-
6. To which down group of animals does the one shown in the diagram below belong?





7. Give any one use of wearing sun glasses.
-
8. Why is maize grain grouped under monocotyledonous seeds?
-
9. What is the importance of a web to a spider?
-
10. How does fish help in controlling the spread of malaria?
-
11. Mention any one way in which communicable diseases are spread.
-
12. Whenever peter opens or closes his door, the hinges makes noise. What can he do to stop the noise when he is opening?
-
13. Name one structure in a human which connects bone to bone.
-
14. Give any one way in which petrol in a car is similar to food in a human body.
-
15. How are ferns, mosses and liverworts similar?
-
16. State any one health reason why the building of industries should be limited in an area.
-
17. Why should you chew food before swallowing it?
-
18. How is a chameleon important to human beings?
-
19. Suggest any one use of a tourniquet.
-
20. State any one way in which soil is important to insects.
-
21. What system is responsible for the removal of waste materials from our bodies?
-
22. State any one result of two naked wires carrying electric current getting in touch with one another.
-
23. Give the function of the epiglottis in the respiratory system.
-
24. Write down the type of venation shown by the diagram below
-
25. State the organisms that can be controlled by use of antibodies.
-
26. Write down any one piece of advice you can give to a friend in order promote their personal hygiene.
-
27. Why is a microscope important to doctor?
-
28. How does boiling of water help in the control of typhoid.
-

29. State the function of the amniotic fluid during pregnancy.
-
30. Which type of electricity is produced by generators?
-
- 31 Give any one cause of cause of malnutrition in adults.
-
32. How is TASO (The Aids Support Organization) useful to HIV/AIDS victims?
-
33. What process makes dew to disappear during hot days?
-
34. Give any one use of reptiles to man.
-
35. How are green plants important in the water cycle?
-
36. Mention any one natural resource found under the ground and is used as fuel.
-
37. Apart from getting medical treatment, write any other piece advice you can give to a friend suffering from flu.
-
38. Name the state of matter in which sound travels fastest.
-
39. Why is it easier for Otim to push a wheel barrow full of manure downhill than uphill?
-
40. State an immunisable disease which enters our bodies through cuts and wounds.
-

SECTION B

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



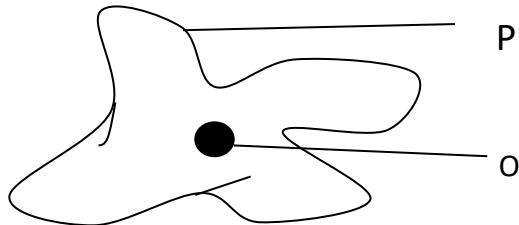
- (a) What name is given to the above equipment?
-
- (b) Why is the above equipment always painted with bright colours?
-
- (c) Why is such an equipment recommended to be in school?
-
- (d) What gas is contained in the above equipment?
-
42. (a) Apart from the skin, give any one example of a respiratory organ.
-
- (b) List any two diseases which affect the respiratory organ in humans
-
- (c) Give any one practice by humans which may lead to a respiratory disease.
-
- 43.(a) Suggest two reasons why young farmers' clubs are important in schools
-

(b) Give any two activities that can be done by young farmers` clubs in school

44. (a) Name any two of the 5Rs in waste management

(b) Suggest any two effects of poor waste management in the environment.

45. The diagram below is of an amoeba. Use it to answer questions that follow.



(a) What kind of organism is an amoeba?

(b) Name the structure indicated by letters:

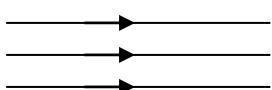
(i) O:

(ii) P:

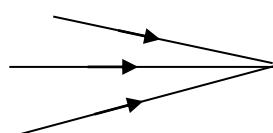
(c) How is the amoeba able to move from place to place?

46. The illustration below show different types of light rays. Use them to answer questions that follow:

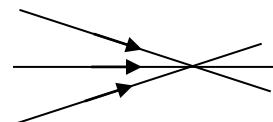
P



Q



S



(a) Name the following rays of light.

(i) Q

(ii) S

(b) Suggest the type of lens that can be used to make light rays move as shown in R above.

(c) What eye defect is corrected by a lens which makes rays move as shown in R?

47. A poultry farmer has his chicken passing out blood –stained dropping and have drooping wings

(a) What disease is likely to have attacked the farmer`s birds?

(b) Suggest two ways in which the neighbours to the farmer can prevent their birds from contracting the above disease.

(c) Why should the farmer separate the birds with the above given conditions from the rest?

48. The diagram below is of a food chain. Study it and answer the questions that follow.



(a) Name the producer

.....

(b) Which living organism in the diagram is herbivorous?

.....

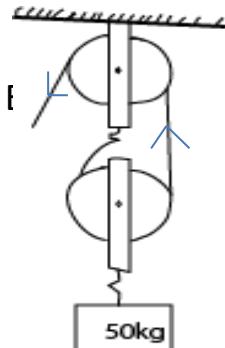
(c) Why is the organism in (b) above herbivorous?

.....

(d) Name one way in which plants benefit from the goats.

.....

49. The diagram below is of a pulley system. Use *it use to answer questions that follow.*



(a) Name the types of pulley system shown above

.....

(b) Use an arrow to show the direction of effort.

.....

(c) If the mechanical advantage of the machine is 2 and the load being carried by the machine is 50kg. Find the effort needed to raise that load.

.....

50. (a) Give two reasons for placing utensils on a rack

(i)

(ii)

(b) Why should a rack be contracted with stands at least 1 meter above the ground?

.....

(c) Suggest one danger of leaving utensils for a long time outside on a rack.

.....

51.(a) Mention any one method of harvesting root crops

.....

(b) Give any three ways in which weeding helps on the proper growth of root crops.

.....

.....

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

.....

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

.....

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

.....

53. Give the meaning of the following words as used in cattle –rearing

(a) Insemination:

(b) Crossbreeding:

(c) Castration:

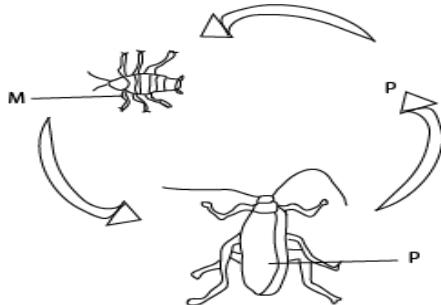
(d) On heat:

54.(a) What is meant by the term silting?

(b) Apart from killing fish, how else does silting affect fish?

(c) List any two major causes of silting

55. The diagram below shows a life cycle of an insect. Use it to answer the question that follow.



(a) Name stages marked M and P

(i) M-

(ii) T-

(b) Name one insect that undergoes the above stages of development.

(c) Draw the stage marked with letter P

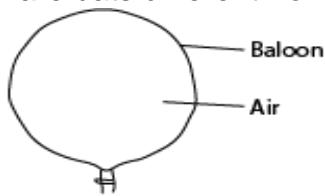
Science 2007

SECTION A

1. Which reptile change the colour of its body as its moves from one place to another ?

2. Give any one way in which bush burning leads to soil erosion.

3. How are bats different from hens in their way of reproduction?



4. How does immunization promote health in a child?

5. Give any one property of air shown in the diagram below

6. Give the difference between evaporation and condensation

7. Why is an earth-worm called an invertebrate?

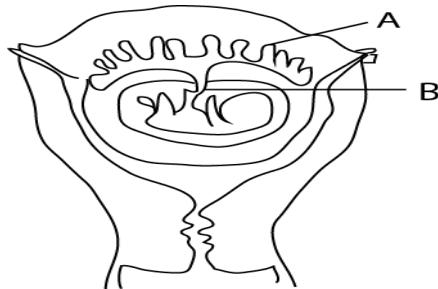
8. Give any one function of the human skeleton.

9. Give any one way in which the spread of scabies can be controlled.

10. Mention a disease which makes a person to pass out watery stool with blood.

- 11 State the difference between volume and mass
12. Give any one body characteristic which is common to a spider and a tick
13. What is the main cause of fainting?
14. Suggest any one way in which human beings use energy light the sun.
15. Give any one way in which sweating is important in a human body.

The diagram below a fetus in the womb. Use it to answer questions 16 and 17



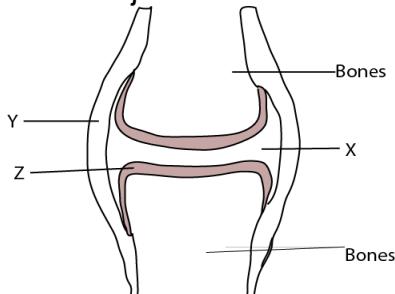
16. Name the part marked with letter A
17. State any one way in which the part marked with letter B is useful to the fetus
18. Which part of human eye works like a film in camera?
19. Give any one activity that can be done at home to control the spread of malaria.
20. In which way is a person who HIV positive different from the one who has developed AIDS?
21. Give any one way in which a transparent object differs from an opaque object.
22. What causes kwashiorkor in children?
23. Why is photosynthesis important to plants?
24. Give any one reason why human beings breathe in.
25. What is an enzyme?
26. Give any one reason why plants and animals are classified as living things.
27. State any one way in which health parades are important in primary schools.
28. Apart from painting, give any one other way in which metal can be prevented from rusting.
29. Which type of soil does not allow water to go through it easily?
30. Why is a sling used when giving First Aid to a person with a broken hand?
31. State any one practice on a school garden that will help to improve soil fertility.

32. Why is a tick called a parasite?
33. State the difference between the function of a pulmonary vein and that of a pulmonary artery in blood circulation.
34. Give any one form of energy that is produced during the process of splitting firewood with an axe.
35. Give any one way in which plants benefit from animals.
36. Give any one sign on a school compound which shows that the school environment is degraded.
37. In which way is the function of kidneys similar to that of the skins in a human body?
38. Apart from the brain, give any one other body organ which is greatly damaged by alcoholism.
39. How does heat from the sun reach the ground?
40. Give any one way in which teeth are important in the digestion of food.

SECTION B

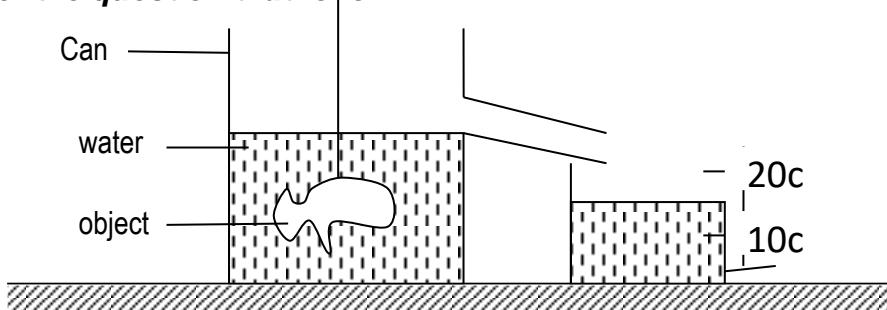
(Questions 41 to 55 carry four marks each.)

41. The diagram below shows a human joint. Use it to answer the questions that follow.



- (a) Name the part marked with letter Y and Z
- (i) Y
- (ii) Z
- (b) Give any one function of the fluid found in the place marked with letter X
- (c) What type of joint is shown in the diagram above?

42. An experiment was done by a P 7 class as shown in the diagram below. Use it to answer the question that follows.



- (a) When is such a method of finding volume used?

If the object above has a density of 2 g/cm^3 . find its mass.

43. (a) Give any two characteristics that are common to a frog and a crocodile apart from being vertebrates.

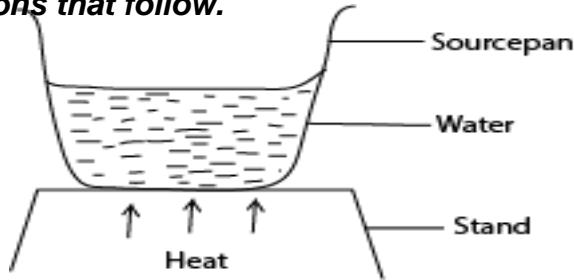
(i).....

(ii).....

(b) How is fertilization of a frog different from that of a crocodile?

(c) Name any one other vertebrate that can be classified with a frog

44. The diagram below shows a saucepan with some water on fire. Use it to answer the questions that follow.



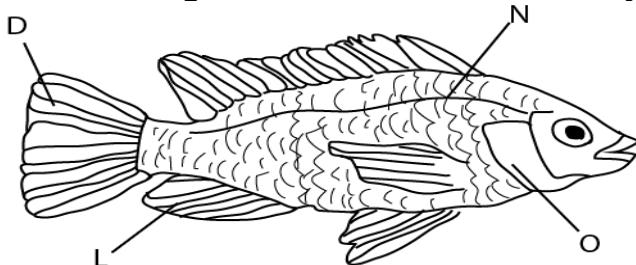
(a) How will heat from the fire move to reach the water at the bottom of the saucepan?

(b) Which method will enable that heat all the water in the saucepan?

(c) Use arrow to show the movement of water in the saucepan after it has been heated for some time.

(d) What will happen to the water in the saucepan to show that it is boiling?

45. The diagram below is of a fish. Study it and answer the questions that follow



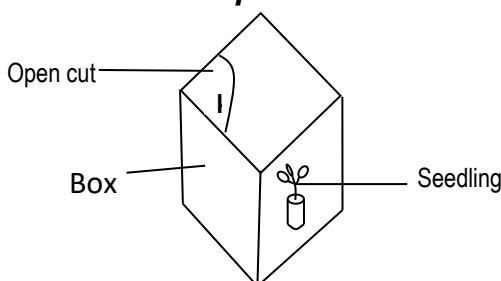
(a) Name the structure marked L

(b) What is the function of each of the structures marked D and N?

(c) State the function of the structure covered by the part marked O

46. The diagram below shows a seedling in a box

Study it and answer the question that follow.



(a) What colour will the leaves of the seedling be if left in this box with H covered for a week?

.....
(b) Give a reason for your answer in (a) above.

.....
(c) Give any two things that are likely to happen to the seedling if the part marked with letter H is left open.

(i).....

(ii).....

47 (a) Give any one reason why a magnet cannot attract pieces of wood.

.....
(b) Give any three practices that can lead to the destruction of a magnet

(i).....

(ii).....

(iii)

48. Bbosa is a poultry farmer. He has 100 layers on his farm. Give any four reasons why he should keep farm records?

(a).....

(b).....

(c).....

(d).....

49 (a) Why is it a bad practice to apply soil or cow dung on any burnt area of our skin?

.....
(b) Suggest any two reasons why the injured part with a burn or scald is dipped into cold water.

(i).....

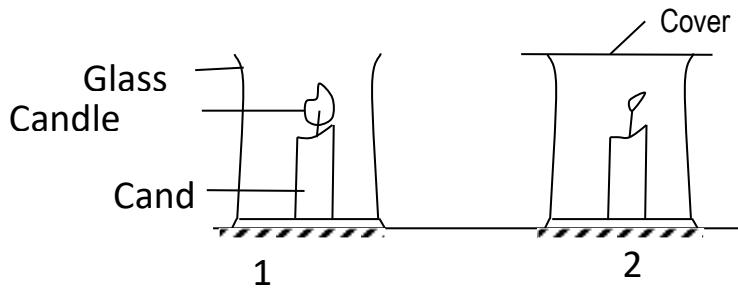
(ii).....

(c) Give any one way of avoiding burns while lifting hot objects.

50. The diagrams numbered 1 and 2 below show an experiment done by a P7 class.

Diagram 1 shows burning candle in an open jar. In diagram 2, the jar was covered as shown.

Use the diagrams to answer the question that follow.



(a) What would happen to the flame in diagram 2 if the cover was removed after a short time?

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

.....
(c) If the cover had been left on the jar in diagram 2 for a long time what would have happened to the flame?

.....
(d) Give a reason for your answer in question (c) above.

51.(a) What is environmental degradation?

.....
(b) Give any three natural causes of environment degradation.

(i).....

(ii).....
(iii).....

52. (a) Give any two ways in which mulching is important to the soil.

(i).....
(ii).....

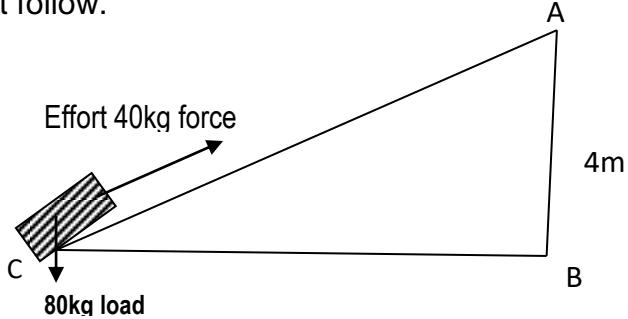
(b) Suggest any two materials that are commonly used for mulching gardens.

(i).....
(ii).....

53. State any one function of each of the following parts in simple electric circuit:
(i) Wire.....
(ii) Battery.....

(b) Mention any two causes of a short circuit
(i).....
(ii).....

54. The diagram below shows a machine used for lifting loads. Use it to answer the question that follow.



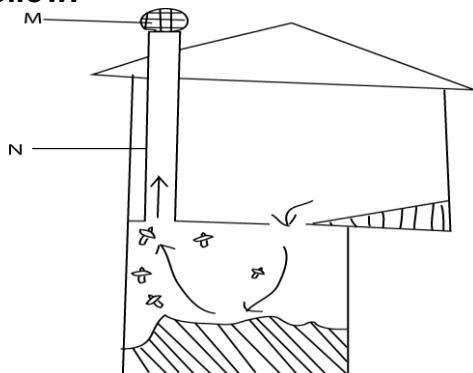
(a) What distance is the load to be lifted?

(b) Give the advantage of lifting the load alongside CA.

(c) find the mechanical advantage of the machine above.

(d) How can the machine be improved so that less effort is used to lift loads.

The diagram below is of a ventilated improved Pit (VIP) latrine. Use it to answer the question that follow.



(a) Name the parts marked m and n

(i) M.....

(ii) N.....

(b) Give the function of the part marked M

(c) what do the arrows in the diagram show?

PRIMARY LEAVING EXAMINATION

2006 SCIENCE

SECTION A

1. What good health habit should be practiced after visiting a latrine or toilet?

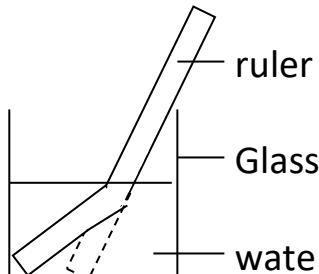
.....
2. Give any one way in which animals are important during the process of photosynthesis.

.....
3. What form of energy does a falling stone have before it reaches the ground?

.....
4. State ant one reason why some plants climb others.

.....
5. Give any one common use of sand at home.

The diagram below shows a glass with water and a straight ruler in it . Use it to answer question 6



6. What causes the ruler to appear bent?

.....
7. What **First** Aid would be given to Jamada who has burnt his fingers with a hot metal?

.....
8. Give any one practice that can help to control the spreads of cholera in a school.

.....
9. Give any one reason why people plant trees around their houses.

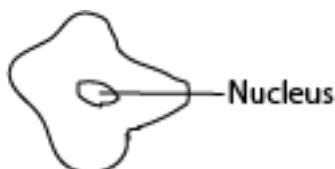
.....
10. Apart from the skin and lungs name any one other excretory organ.

.....
11. Give any one way in which the breathing of a housefly is different from that of a rat.

.....
12. Give any one way in which soil is important to a plant.

.....
13. Why is a wet cloth put on the body of a person with fever?

The diagram is of a blood cell. Use it to answer questions 14 and 15



14. What type of blood cell is shown in the diagram?

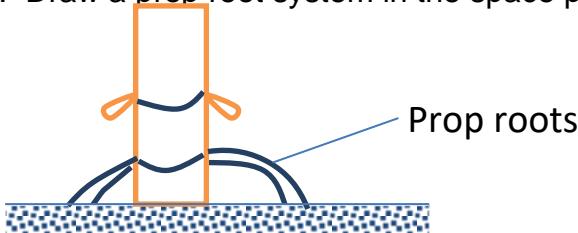
.....
15. Give a reason for your answer in question 14 above.

.....
16. Give any one reason why plants are grouped among living things.

.....
17. Give any one example of a leguminous crop.

.....
18. How does a snail protect itself from its enemies?

19. Give any **one** disadvantage of keeping poultry on a free-range system.
20. Give any **one** reason why air is considered to be matter
21. Give any **one** reason why people like the brick makers, need to feed on more carbohydrates
22. Which part of air is necessary for burning to take place?
23. Give the meaning of drug abuse.
24. State ant one way of making a magnet
25. Which part of the human body does Trachoma attack?
26. Suggest any one way in which the use of solar energy helps in the protest of the environment.
27. Why is a Ventilated Improved Pit latrine left without a cover?
28. How do some people become passive smokers?
29. Draw a prop root system in the space provided below.



30. Name any one crop with a root system similar to the one you have drawn above
31. What causes an echo?
32. Why does a stone sink when it is put in a bucket full of water?
33. Give any one way through which worms enter our bodies.
34. Mention the instrument used to measure the temperature of a human body.
35. What is the process by which seeds grow into seedling?
36. State any one use of an axe in a home.
37. Give any one reason why white objects are seen easily even at a distance.
38. Give any one way in which people benefit from bees.
39. Which bone in the human skeleton protects the brain?
40. Give any one characteristic which is common in all the invertebrates.

SECTION B

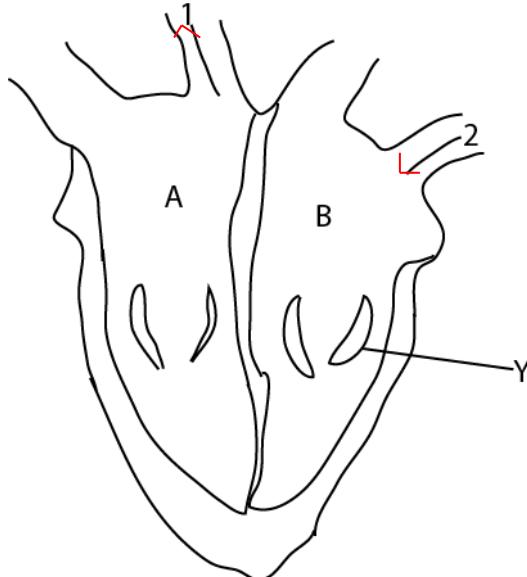
41. John fell off a bicycle and broke his thigh bone.

(a) Name the injury which john got.

(b) State any two ways in which john can be given First Aid.

(c) What is the importance of giving first Aid to a person like John?

42. The diagram shows a human heart. Use it to answer the questions that follow.



(a) What is the function of the part marked with letter Y?

(b) Give the difference between the blood in the regions marked with letters A and B

(c) Put arrows on the short lines marked with numbers 1 and 2 to show the direction of the movement of blood.

43. (a) Name any two parts of a plant which provide human beings with food.

(b) Give any two ways in which plants benefit from animals.

44. Below is a list of activities carried out by people in the environment.

Use the list to answer the question that follow.

- Fishing
- Producing a lot of smoke in the factories
- Draining swamps
- Throwing polythene bags on the soil.
- Crop rotation.

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

(b) Which activity is likely to spoil the fertility of the soil?

(c) Which activity is good for controlling crop diseases?

(d) Which activity is likely to cause pollution of the atmosphere?

45. The table below shows different group of vertebrates. Use it to answer the question that follow

A	B	C
Birds	Mammals	Amphibians

(a) to which group of vertebrates does each of the following belong?

(i) Bat:

(ii) Frog:

(b) Give any way in which the reproduction of animals in group B is different from that of animals in group C

(c) Give any one other group of vertebrates which is missing from the table.

46 (a) What is the importance of taking children for immunization?

(b) Which vaccine is given to the child in the mouth at birth?

(c) Give any two ways in which the child's health card is important to the parents

47. (a) Give any two reasons why a mushroom is not a plant.

(b) Give any two plants that reproduce in the same way like a mushroom.

48. The diagram below shows wooden poles with electricity wires.

Use it to answer the question that follow



(a) State any one reason why the wires are loosely fixed.

(b) What would happen to the wires if they were tightly fixed?

(c) Give any one reason why wooden poles are usually used to carry electricity.

(d) Why are the wires placed very high up?

49. (a) Give any one part the human body where each of the following joint is found

(i) Ball and socket joint:

(ii) Hinge joint:

(iii) Gliding joint:

(b) Which one of the above joint can make an all-round movement?

50 (a) What is a chemical change?

(b) Give any one example of a chemical change.

(c) When water changes to ice the process is called freezing. Name the process in each of the following changes:

- (i) Ice to water
- (ii) Steam to water:

51. (a) Give any one reason why people include proteins in the diet.

(b) What is the importance of fruit in a diet?

(c) State any two ways of protecting children against malnutrition.

52. The list below gives some of the methods farmer use to control soil erosion

Use it to answer the questions that follow

- Terracing
- Planting trees
- Contour ploughing
- Mulching

Which two of the methods given above are best for?

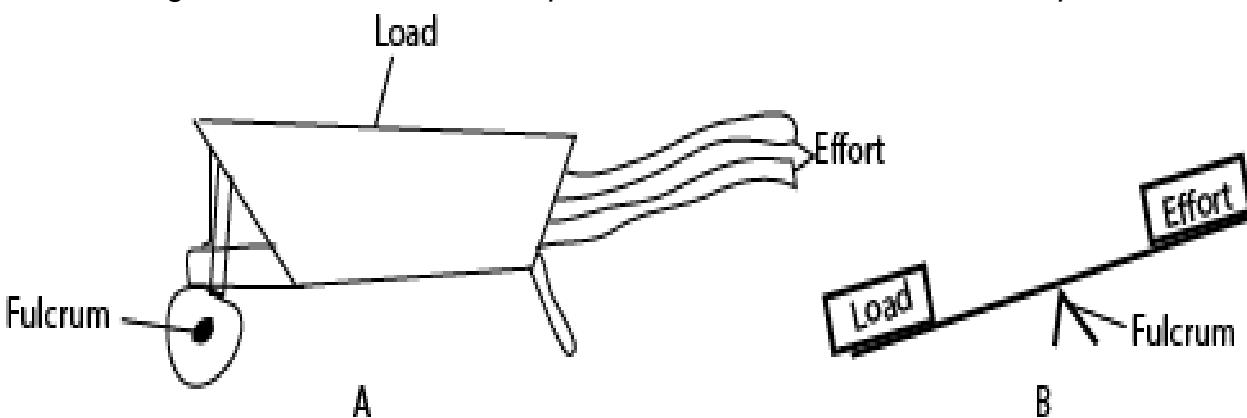
(a) Land with a gentle slope?

(b) Land with a steep slope?

53. Give any one sign you would see on cattle suffering from the following diseases:

- (a) Anthrax:
- (b) East coast fever.....
- (c) Nagana.....
- (d) Foot and mouth.....

54. The diagram below shows two simple machines. Use it to answer the question that follow

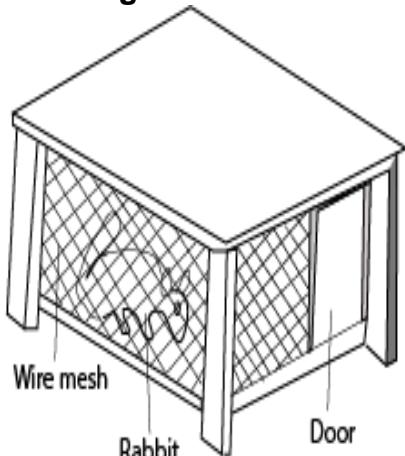


(a) Name the machine marked with the letter A

(b) State the class of lever to which each of the above machines belongs:

- (i) machine A:
- (ii) machine B:
- (c) Give any one example of a machine which works in the same way as the machine marked with letter B

55. The diagram below shows a rabbit house. Use it to answer the question that follow



(a) Give any one reason why the rabbit house is raised above the ground.

.....

(b) Give any two reasons why wires mesh is used in building a rabbit house.

.....

(c) State any one thing that should be provided to the rabbit in the house.

SCIENCE 2005 SECTION A

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

.....

2. Give any one form of energy produced when a carpenter driver drives a nail into a piece of wood a harmer.

.....

3. Give any one animal fibre found in the environment

.....

4. What change of state takes place when water is frozen to ice?

.....

5. What structures on the leaf of a plant help in the process of transpiration?

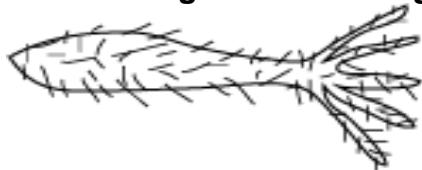
.....

6. How are houseflies able to spread germs?

.....

7. Give any **one** proper way of disposing off rubbish in a home.

Use the diagram of a seed given below to answer questions 8 and 9.



8. How is the seed in the diagram dispersed?

.....

9. Give a reason to support your answer in question 8 above.

.....

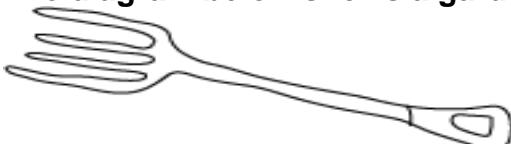
10 In which way is crop rotation a good method of controlling crop pest?

.....

11. Give any one reason why people commonly use free range system of keeping poultry.

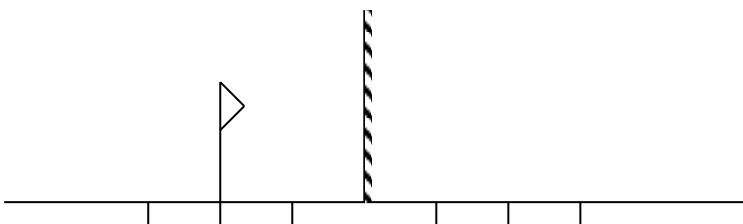
12. What structure in an insect work like lungs in a mammal?
.....
13. What is a stretcher useful in giving First Aid?
.....
14. Give any one use of saliva in the digestive system.
.....
15. In which state of matter does heat travel by convection?
.....
16. Why is thunder heard after lightning has been during a rainy day?
.....
17. How does painting a metal prevent it from rusting?
.....
18. What a structure enables the absorption of food to take place in small intestines?
.....
19. Give any one characteristic that makes a butterfly and a cockroach to be classified as insects.
.....
20. Suggest any one problem of early pregnancy to a school girl below 18 years.
.....
21. How can the school health committee tell whether a child is already immunized against Tuberculosis without referring to the Child- Health Card?
.....
22. Mention any one reason for thinning crops like cotton.
.....
23. Why is a clay soil able to retain water much longer than the other types of soil?
.....
24. What force enables a match-stick to light when it is struck at the side of its box?
.....
25. Give the difference between heat and temperature.
.....
25. Give any one way in which bees benefit from plants.
.....
27. How is the method of propagation of a sweet potato different from that of an Irish potato?
.....
28. How does the breathing of an adult frog differ from a tadpole?
.....
29. Draw a compound leaf in the space provided below.
-
30. What is the importance of immunizing a pregnant woman against Tetanus?
.....

The diagram below shows a garden tool. Use it to answer questions 31 and 32

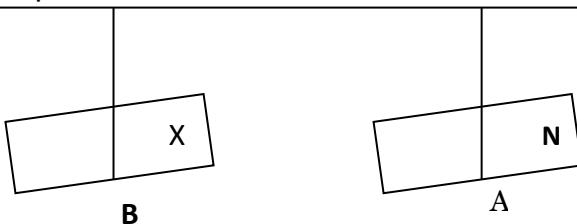


31. Name this garden tool.
.....
32. Give any one use of the tool to the farmer.
.....
33. Give any one reason why doctors prescribe drugs for patients.
.....

34. The diagram below shows an object 2 metres away from the mirror.



Two magnets A and B were suspended as shown in the diagram below
Use it to answer question 35.



35. If the pole marked N magnet A is the north pole, what is the pole marked X on magnet B?

.....
36. A cow and a bat are classified as mammals. To which class do the tortoises and lizard belong?

.....
The diagram below shows a simple lever system
Use it to answer question 37, 38 and 39.



37. Show on the diagram, with an arrow, the direction of movement of the effort at P as load is being lifted.

.....
38. At which of the two points D and P shown on the diagram will less effort be used to lift the load?

.....
39. Give a reason for your answer in 38 above.

.....
40. Why does 1 kg of iron have less volume than 1 kg of cotton wool?

SECTION B

41. Give any four ways in which plants depend on each other.

(a).....

(b).....

(c).....

(d).....

42.(a) What is the use of the hairs found in the nose of a human being?

.....
(b) Name any one disease that attacks the respiratory system.

.....
(c) What happens to the diaphragm when we breathe

(i) in?.....

(ii) out?.....

43.(a) What are communicable diseases?

(b) Give any two examples of communicable diseases.

- (i).....
(ii).....
(c) State any one practice in a community that would help in the control of communicable diseases.

44. (a) Give any two ways in which bacteria are useful to human beings.

(b) Give any two ways in which bacteria are dangerous to human beings.

45. Give any two ways of controlling the spread of the following diseases without using drugs

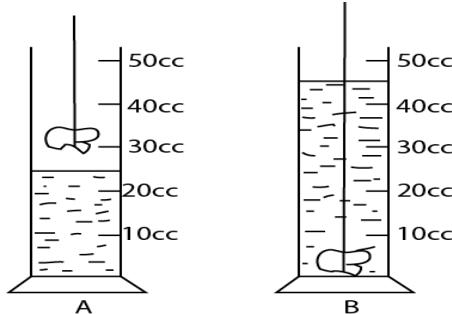
(a) AIDS

- (i).....
(ii).....
(b) Malaria
(i).....
(ii).....

46. The diagram below shows a stone being put into a measuring cylinder A containing water.

The level of water rose to that shown in cylinder

Use the information to answer the questions that follow.



(a) Work out the volume of the stone.

(b) If the mass of the stone is 60g, calculate it density.

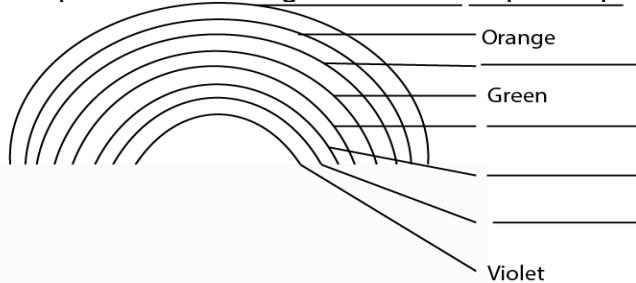
47. (a) Give any three characteristics of living things

- (i).....
(ii).....
(iii).....

(b) How are plants different from animals in the way they get their food?

48. The diagram below the even colors of a rainbow

Complete the missing bands in the spaces provided in the diagram below



49. John 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 type of food. The following was his daily record:

Animal	Number of times each food was eaten					
	Sweet potato leaves	Cassava leaves	Sorghum leaves	Grass	Maize leaves	Banana leaves
Goat	3	1	0	3	2	4
Rabbit	4	2	1	2	3	2

(a) What was the most favorable food for the:

(i) goat?.....

(ii) rabbit?.....

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

(c) If Bbosa were to use only one type of food ,which one would be the most favorable for both the goat and the rabbit?

50. In the space provided below, draw a diagram to show the germination of :

(a) a monocotyledonous seed.

(b) a dicotyledonous seed

(c) What is the importance of a cotyledon in a seed?

(d) In which way is a seed important to a plant?

51. (a) What does blood move from the heart to the lungs before it moves round the body?

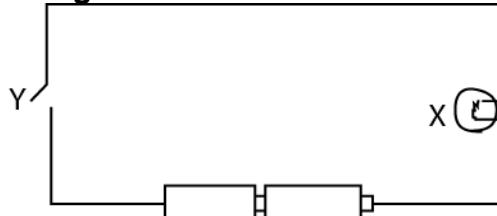
(b) Give ant one function of each of the following

(i) White blood cells

(ii) Red blood cells

(iii) Platelets.....

52. The diagram below is of an electric circuit. Use it to answer the question that follow



(a) Name the parts labelled Y and X in the diagram

(i) Y.....

(ii) X.....

(b) Apart from light give any one other form of energy produced by the part labeled X when Y is closed.

(c) Show with the help of arrows the flows of current in the above diagram.

53. Health Committee members in your school visited an old man's home and found out that home did not have the main requirement for proper sanitation .Suggest any four activities that should carry out to ensure proper sanitation in the old man's home.

- (a).....
(b).....
(c).....
(d).....

54. Give any two ways in which an umbilical cord is important to a baby in the womb.

- (i).....
(ii).....

(b) Suggest ant two things a pregnant woman must do to promote the health of her baby in the womb.

- (i).....
(ii).....

55. Explain how to prepare Oral Rehydration Solution (ORS).

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

INTEGRATED SCIENCE 2004

SECTION A

1. Air a mixture of gases. Which of the of gases forms the greatest percentage of air in the atmosphere?

2. Give any one characteristic which is common to all vertebrates

3. What first aid would you give a person who is suffering from diarrhoea?

4. In which process can water be changed into water vapour?

5. Give any one way in which ringworm is spread.

6. Give any one reason why you would choose to use solar energy stead of wood fuel as a source of energy.

7. Give any one reason why people should cut their fingernails

8. Apart from having bright colours, state any other characteristic of insect –pollinated flowers.

9. Give any one reason why the burning of wood is a chemical change.

10 How is the air we breathe in different room the air we breathe out?

11. Give any one characteristic that can help you distinguish between a hen and a cock.

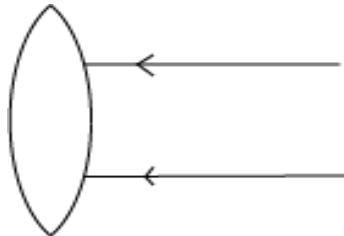
12. Mary suspended three magnets on strings near each other and observed that some ends came close but other ends moved away from each other. Why did this happen?

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

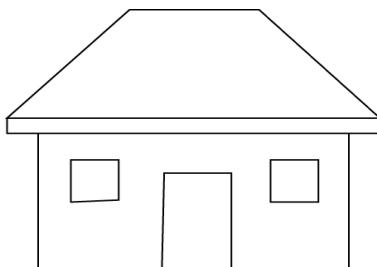


14. How do animals benefit from photosynthesis?
-
15. Give any one way in which a P7 pupils can help in the control of polio in a community.
-
16. Give any one way in which a Child Card is important to a school Health Committee.
-
17. Suggest any one reason why people drink alcohol.
-
18. Peter uses a wheel barrow to carry potatoes from his garden to the market. What is the advantage of using such a machine?
-

The diagram below shows parallel rays striking a convex lens. study it and answer question 19 and 20.



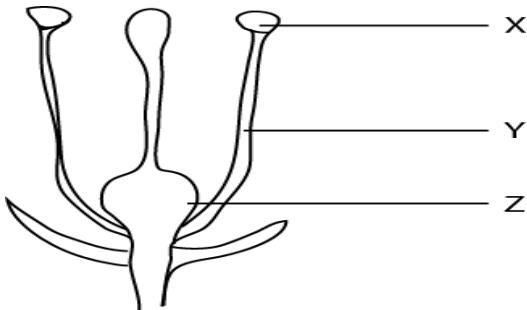
19. Complete the diagram to show the path of the rays after passing through the lens
20. What eye defect does this type of lens correct?
-
21. Give the part of an insect that has the same function as the gills of a fish.
-
22. Apart from the animal kingdom, which other of organisms makes up living things?
-
23. How can a poultry farmer prevent hens from eating their own eggs?
-
24. Which property of air enables one to drink water from a bottle using a straw?
-
25. In which way do bacteria help in soil formation?
-
26. Indicate on the diagram below the missing part that would improve the movement of air in the house.



27. In which way is a pool of water near a home likely to be a source of malaria to the people in that home?
-
28. How does a bat differ from all the other mammals?
-
29. Apart from contracting sexually transmitted diseases, why would you advise a girl has started menstruating to abstain from sex?
-
30. Draw an example of a foot of a swimming bird in the space provided below.

31 Why is a splint necessary when giving First Aid to someone with broken limb?

The diagram below is of a flower. Use t to answer question 32 to 34.



32. Name the part labeled X.....

33. What is the use of the part labelled Y to the flower?

34. What does the part labeled Z become after fertilization?

35. Give any one reason why it is important to weed crops.

36. If a person enters a room and begin smoking, how does that habit affect the health of the people in the room?

37. In which part of the human body are the red blood cells made?

38. What process will you use to recover salt which has dissolved in water?

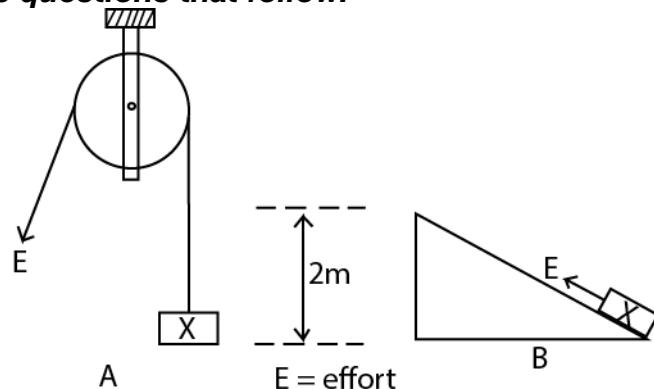
39. Which instrument is used to measure the temperature of human body?

40. What first aid would you give to a child who has drunk paraffin?

SECTION B

41. The diagram bellow show two types of simple machines labelled A and B

Use it to answer the questions that follow.



(a) Name each of the machines shown in the diagram

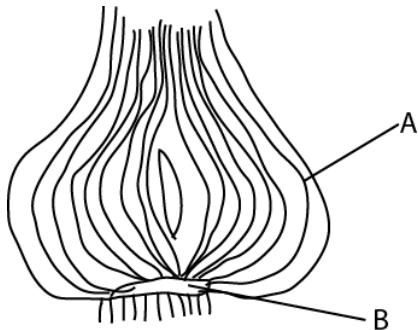
(i) A.....

(ii) B.....

(b) Which of the two machines would you choose to use to lift the load X to a height of two metres?

(c) Give a reason for your choice of machine in (b) above.

42. The diagram below shows an onion. Use it to answer the questions that follow



(a) Name the part labelled **B**.....

(b) What is the function of the part labelled **A**?

.....
(c) what types of root system does this plant have?

.....
(d) How is this plant propagated?

43. The two lists a and b below ,show the diagram and the animals they affect .match the items in list a with those in list b correctly by completing the table below.

List A

New castle
African swine fever
Rabies
Rinderpest

List B

Cattle
Dogs
Pigs
Fowls

(a) New castle
(b) African swine fever
(c) Rabies
(d) Rinderpest

44. (a) Why should water not be used to put out a fire caused by petrol?

.....
(b) Suggest any two ways in which such a fire can be put out.

.....
(c) How is a burn different from a scald?

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

- (a)Tortoise.....
(b)Wasp.....
(c) Millipede.....
(d)Chameleon.....

46.Give any four main causes of motor accidents in Uganda

- (a).....
(b).....
(c).....
(d).....

47. (a) What advice would you give to a person wishing to construct a pit latrine at his home?

(i).....

.....
(b) Give any one characteristic of a Ventilated Improved Pit Latrine

.....
(c) Give any one reason why people should use latrines /toilets properly.

48. Mention any one reason why copper wires are commonly used to distribute electricity from one point to another.

(b) Why do people who work on electric wires wear rubber gloves?

(c) Give any one use of each of the following:

(i) a switch

(ii) a fuse

49. (a) Which bone joint the pelvis and the tibia?

(b) Apart from movement, give any other two functions of the human skeleton.

(i).....

(ii).....

(c) What is the function of tendons in a human body?

50. (a) In which way does the cutting of trees (deforestation) cause soil erosion?

(b) Suggest any three methods of farming which can prevent soil erosion.

(i).....

(ii).....

(iii).....

51.(a) Give any one danger to a person who gets used to taking drug of dependency.

(b) Suggest any three reasons why it is not advisable to take drugs bought from local shops.

(i).....

(ii).....

(iii).....

52 (a) What do you understand by 'dual purpose' cattle?

(b) Give any two common local breeds of cattle kept in Uganda

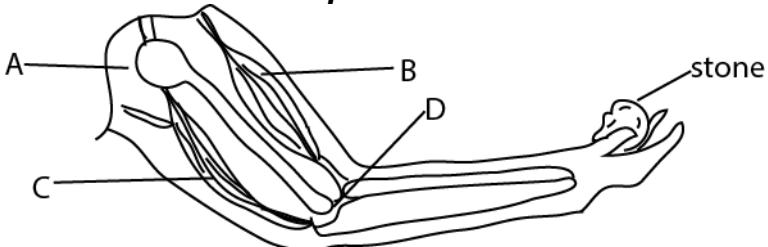
(i).....

(ii).....

(c) suggest any one reason why cattle keepers practice cross-breeding.

53. The diagram below shows the human arm holding a stone

Use it to answer the question that follow



(a) Which muscle acts as the effort in order to lift the stone?

(b) What kind of movement is possible at each of the following joint?

(i) joint A.....

(ii) joint D.....

(c) Which class of lever is represented by the diagram above?

54. Use one sentence to explain the meaning of each of the following:

(a) reflection of light

(b) conduction of heat

(c) transpiration

(d) condensation

55. The table below shows food stuffs prepared in different families

Study it and answer questions that follow

Family A	Family B	Family C	Family D
Matooke	Cassava	Potatoes	Millets
Yams	Beans	Posho	Fish
Meat	Posho	Cassava	Goat milk
beans	yams	yams	Mangoes

(a) Which family will be able to have vitamin C?

(b) Which family has proteins but lacks fats?

(c) What food nutrients are lacking in family A?

(d) Which family has almost a balanced diet?

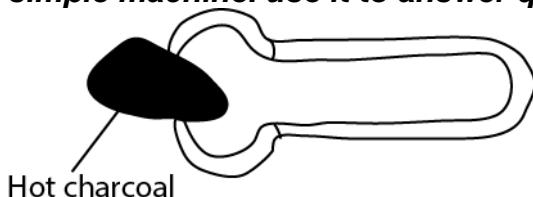


**2003 science
SECTION A**

1. What kind of change take place when ice melts to form water?

2. Give any one reason why farmers prefer keeping cross-breed cattle other than the exotic ones.

The diagram below is of a simple machine. use it to answer questions 3 and 4

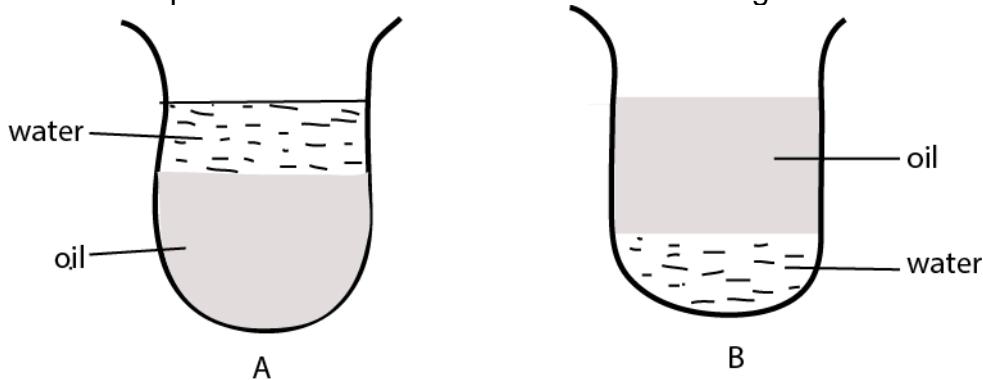


3. Indicate with letter E the position of the effort.
4. What class of lever is this machine?

5. What is the importance of leaves to a plant?

6. In which way is the breathing of crocodile different from that of a fish?

7. The same amount of oil and water were poured into the container shown in A below beginning with oil and then water. When the container was checked after sometime ,oil was found on top of the water as shown in B .Use the diagram to answer the question that follow:



Why did oil come on top of the water?

8. Why is it a bad habit to cut finger nails using teeth?

9. Give any one problem that may be faced by a school girl who becomes pregnant.

10. Give any one reason why a latrine should be 10 metres away from the living house.

11. Give any one practice in a home that would help in the control of malaria

- 12 Apart from teeth, which other weapon does a dog use for protection?

13. What is the duty of the queen bee in a hive?

15. How are animals different from plants in the way they get food?

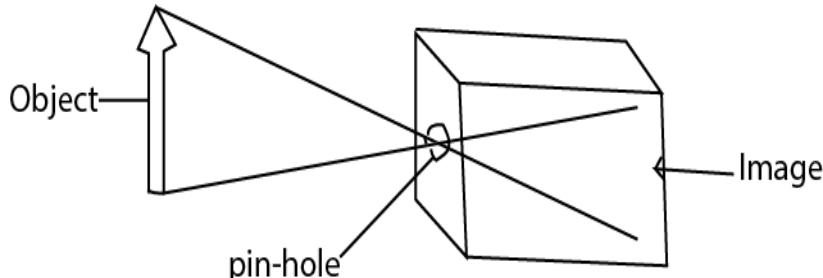
16. Give any one reason why a patient should take a drug only when it is prescribed by a medical person.

17. State any one agent responsible for dispersing mango seeds

.....
18. In the space below, draw an example of a compound fracture

19. Whenever Bbosa runs on a sunny day, he sweats. What is the importance of sweating to his body?

.....
20. The below shows a pin-hole camera with an object. The image been left out. Complete the diagram drawing the image in the pin-hole camera.



21. Which organ in your body helps you to find out whether something is sweet or bitter?

.....
22. Give the general name of blood vessels which carry blood away from the heart to various parts of the body.

.....
23. Give any one use of cow-dung to farmers.

.....
24. Give any one reason why it is not advisable to breathe through the mouth.

.....
25. Why does blood go to the kidneys during circulation?

.....
26. At what time of the day are shadows shortest?

.....
27. Why do tyres of cars wear out more quickly on tarmac roads than marram roads?

.....
28. Give any one other system of poultry farming, apart from a free –range system.

.....
29. In which class of animals do you put a tortoise and a lizard?

.....
30. Our school pit latrine smells a lot and is always full of flies. What measures can we take to prevent this situation?

**Susan shouted loudly in a big house ,as she shouted ,she heard another similar sound.
Answer the questions 31 and 32 using this information.**

.....
31. Give the name of the similar sound Susan heard after shouting.

.....
32. How was the sound you have named in question 31 formed?

.....
33. Give any one factor to be considered when choosing a site to build a home, apart from security, raised nearness to the main road and availability of water.

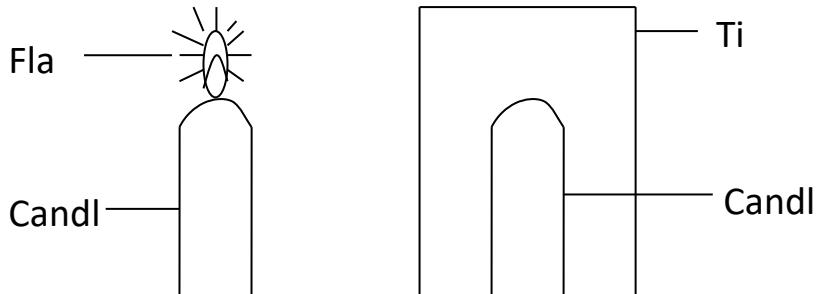
.....
34. Give any one state of matter.

.....
35. Why is transpiration important in green plants

36. State any one effect of air pollution on people.

37. In the diagram below a candle was burning as shown in A then it was covered with a tin as shown in B. after sometimes the candle stopped burning.

Use the diagram to answer the question below



Why did the candle flame in B go off after sometime?

38. Give any one function of a spinal cord in human body.

39. What type of energy do you have when you are seated in the class?

40. Suggest one reason why an individual should promote personal hygiene?

SECTION B

41. (a) What is a crop pest?

(b) Give any one example of a crop pest.

(c) Apart from spraying with chemical, give other two ways of controlling crop pests.

(i).....

(ii).....

42.(a) Give any one habit that may lead a person to catch AIDS

(b) Suggest the best way of controlling the spread of AIDS.

(c) Give any two sign that shows that an individual is suffering from AIDS.

43. (a) What is the use of a clinical thermometer?

(b) Give any one reason why there is a bend in the tube of a clinical thermometers.

(c) Which liquid is mainly used in thermometers?

(d) Why is the liquid you have named used instead of other liquids?

44. (a)Name any one disease that is immunized against at birth.

(b) Which site on the body is measles immunization usually given?

(c) Why are pregnant women immunized against tetanus?

(d) How does tetanus get into our bodies?

45. (a) Give one process in plants in which:

(i) oxygen is used,

(ii) carbon dioxide is used.

(b) What useful by-product in (a) above?

(c) Give any other natural process that uses oxygen

46. Show the difference between the first-class lever and the second –class lever by drawing and labelling the two diagrams.

(a) First –class lever

(b) Second –class lever

47. In which one way is the function of the skin similar to that of lungs?

(b) Give an example of a practice which will prevent the skin to function properly.

(c) Suggest any two ways in which the proper functioning of the skins can be promoted.

(i).....

(ii).....

50. (a) What type of electricity is generated at Jinja?

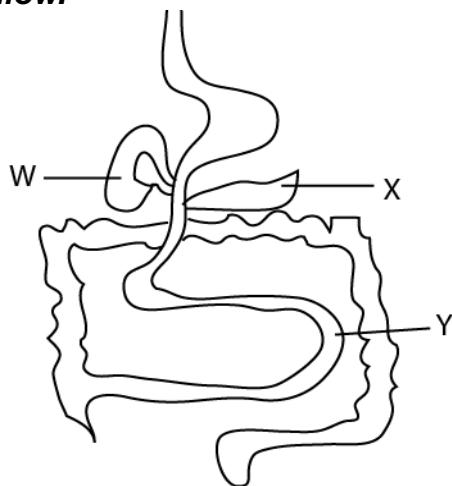
(b) What is the difference between solar ant thermal electricity?

(c) Give any two advantage of solar electricity over the thermal electricity.

(i).....

(ii).....

51. The diagram below shows the alimentary canal of the human being . Use it to answer that question that follow.



(a) Name the part marked:

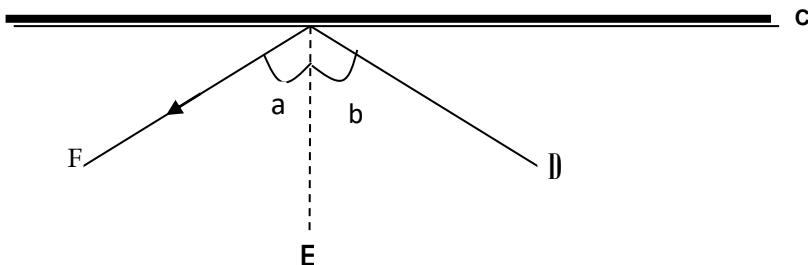
W.....

X.....

(b) State any one process that takes place labelled Y

(c) Give one function of the organ labelled X

52. The diagram below shows a ray of light striking the mirror
Study it and answer question that follow



(a) Name the part marked **C**

(b) Put an arrow on line D to show the diagram of the ray of light

(c) If angle $b=40^{\circ}$, what is the size of angle **a**?

(d) Give a reason for your answer in (c) above.

53.(a) Which vector spreads dysentery?.....

(b) Give any two ways of controlling dysentery in our homes

(i).....

(ii).....

(c) Why should a person suffering from dysentery be given oral Rehydration salts(ORS)?

54. study the table below and answer the question that follow

LIST A	LIST B
Tilapia	Rat
Frog	Goat
Crocodile	Lion
Dove	whale

(a) What is the similarity in the way animals in list **A** reproduce?

(b) To which class of animals do those in list **B** belong?

(c) In which way is tilapia in list A similar to a whale in list **B** ?

(d) What is common about the animals in list **A** and list **B**?

55. (a) Draw bean seed and show:

(i) a scar

(ii) a micropyle.

(b) Draw a split bean seed and show:

(i) a plumule.

(ii) a radical

**2002 SCIENCE
SECTION A**

1. Why does a bedbug produce a very bad smell when it is touched?
.....
2. Give any **one** reason why a child's diet should more proteins than that of an adult.
.....
3. Give any **one** way in which flowers are important to a plant.
.....
4. Give one sign which is common between the people suffering from tuberculosis (TB) and those from AIDS.
.....
5. Give any **one** example of an animals which an amphibian.
.....
6. Give any **one** characteristic which is common to all insects.
.....
7. Why does sugar disappear when it is mixed with water?
.....
8. Which property of air demonstrated when air is pumped into a ball, and the ball becomes bigger?
.....
9. How is the absence of iodine harmful to our health?
.....
10. Explain why sandy soil cannot retain water like clay soil.
.....
11. What is the importance of red blood cells in the body?
.....
12. Give any one characteristic of an image formed in a pin hole camera.
.....
13. Which of the following animals: fish, frog, lizard, rat and snail is warm blooded?
.....
14. Why is proper disposal of refuse important in a home?
.....
15. **The diagram below are of three types of metals. Study them and answer the question that follows**

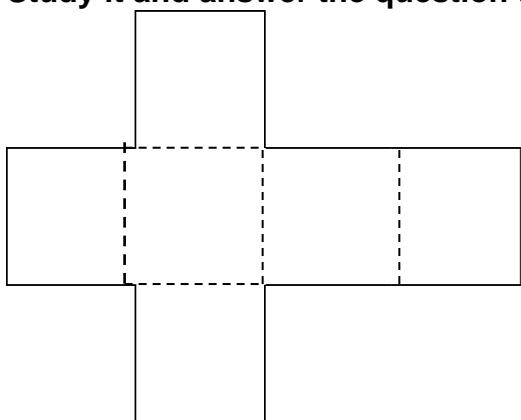
A before heating	<input type="text"/> M
	<input type="text"/> C
	<input type="text"/> K

B after heating	<input type="text"/> M
	<input type="text"/> C
	<input type="text"/> K

Explain the cause of the difference in length after they have been heated.
16. in the space provide, draw a convex lens
.....
17. Why do you think that seeds of an orange are likely to be dispersed by a person?
.....
18. When water is heated it changes into water vapour .What is this process called?
.....
19. Apart from using more energy, name one other disadvantage of friction.
.....



- 20.What is the importance of bees to plant?
21. Explain the difference between temperature and heat.
22. What is the disadvantage of having anthills near gardens?
- 23. The diagram below shows a certain shape of an object, which has been dismantled. Study it and answer the question that follows.**



What shape can you get that diagram if folded along dotted lines?

24. What First Aid would you give to a person whose finger has been burnt by fire?
25. Why is it possible to control the spread of cattle diseases in a paddock system?
26. Name any cereal which is used as food.
27. Mukasa has a pool of water in this compound and he has a problem of mosquitoes. What advice would you give him to reduce the number of mosquitoes without emptying the pool?
28. Why is it important to bathe with soap?
29. In the space provide below ,draw a compound leaf.
30. Vultures, kites and crows were found feeding on a dead cow. What group of birds are these?
31. Give any one special characteristics of the air we breathe out.
32. Give anyone way in which a human skull is important.
33. Give an example of a hinge joint in a human body.
34. Give any one sign of dehydrated person.
35. Give an example of a plant which grows from stem cuttings.
36. Explain what antenatal care is.

37. Suggest any **one** way you would help one to avoid drug dependency.

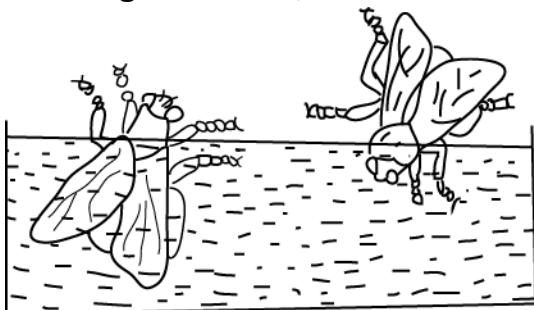
.....
38. Give any one reason why parents should take their children for immunization.

.....
39. On a hot day, a boy ran 1500 metres but there was not a lot of sweat on his face. Immediately he came under the shade of a tree, the whole face was full of sweat .Explain the reason for the sweating under the shade.

.....
40. Why are windows put at a lower than the ventilators?

SECTION B

41. In the diagram below, two insects were placed in water as shown.



(a) (i) which insect died?

.....
(ii) Give a reason for your answer in (a) (i) above.

.....
(b) In which way are the insects shown in the diagram harmful to man?

.....
(c) Give any other insect that causes the harm similar to that in (b) above.

42. (a) After it has rained, earthworm come out of their holes. Why do they come out?

.....
(b) Give two reasons why an earthworm is very important to a farmer.

.....
(c) Why does worm die if oil is poured on its body?

43. Give any four ways in which fish can be preserved.

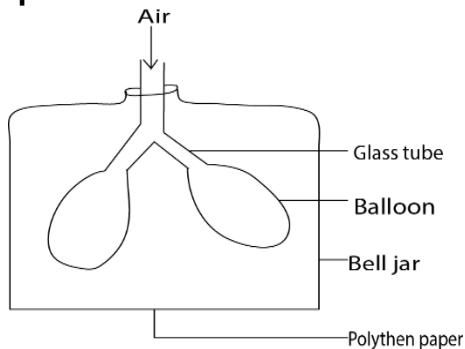
(a).....

(b).....

(c).....

(d).....

44. The diagram below shows the way in which one of the systems of the human body Works. Use it to answer the question that follow



(a) Name the system.

.....
(b) What does a balloon represents?

.....
(c) What does the polythene paper represent?

.....
(d) What would happen to the polythene paper if air filled the balloon?

45 (a) some bacteria are useful and others are harmful. Give an example of each.

(a) Useful bacteria.....

(b) Harmful bacteria.....

(b) Give any two examples of when bacteria are useful to man

.....
46. The diagrams below are of pests. Use them to answer questions (a) and (b) below

A



B



Name the pests:

(i). A

(ii). B

56. What is the disadvantage of the above insects to a farmer?

.....
47. Match items of group A with those of group B by completing the table below

A

Heart

Kidney

Skin

Lungs

Brain

B

Sensory organ

memory

carbon dioxide

circulation

urine

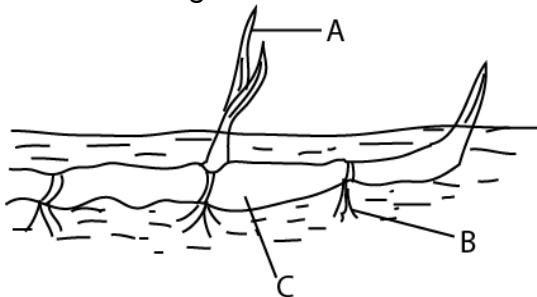
Complete the table below

A	B
(a)	Circulation
(b) Skin
(c)	Memory
(d) Lung

.....
48 (a) Name materials used to measure the volume of an irregular objects

.....
How would you get the mass of an object if its density is 6g/cc and the volume is 10cc.

49. The diagram below shows an underground stem.



(a) State the type of underground stem shown in the diagram

(b) Suggest the functions of the parts labelled A, B and C

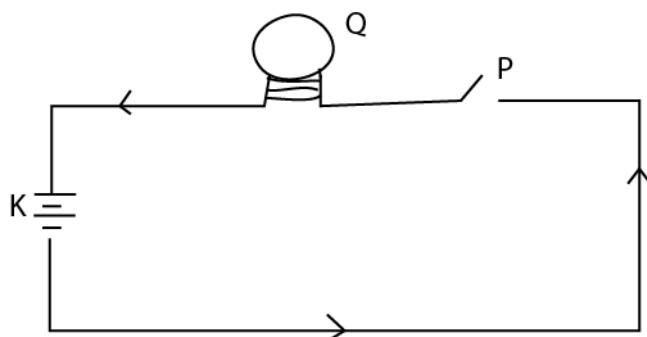
- (i)
- (ii)
- (iii)

50. (a) Name two practices that lead to the destruction of wet lands.

(b) What is the difference between contour ploughing and mulching?

(c) How are the two practices in (b) similar?

51. the diagram below shows an electric circuit. Use it to answer the questions that follow.

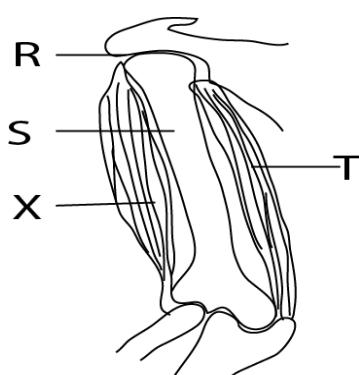


(a) Name part K

(b) Name part P

(c) Give the type of energy that are produced at Q when P is closed.

52. The diagram below shows the arm. Study it and answer the questions that follow.



(a) Name the Joint labelled R

.....
(b) Name the bone labelled S

.....
(c) What happens to muscles T and X when the fore arm is raised?

T

X

53. As a pupil in a school, you are of the school health committee. What do you expect to do to make health improve in the school?
.....

54. (a) in the list of objects: rabbit bacteria, sun, pig and plant.

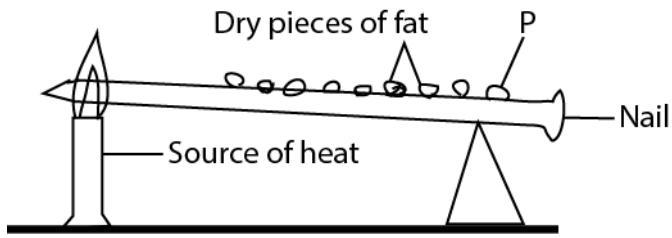
(i) Name a producer

(ii) Name a primary consumer

(i) What is the role of bacteria from the above list?
.....

(d) what is the difference between a primary consumer and a secondary consumer?
.....

55. The diagram below is of an experiment performed by a p6 class. Study it and answer the question that follow.



(a) what is the experiment about?
.....

(b) What is the importance of fats pieces
.....

(c) What will happen to piece P after sometimes?
.....

(d) Give a reason for your answer in (c).
.....

SCIENCE 2001 SECTION A

1. Why is a hoe regarded as a simple machine?
.....

2. How can you increase milk production in a dairy cow?
.....

3. Give the function of teeth in the process of digestion.
.....

4. What disease is likely to attack children whose diet lacks proteins?
.....

5. How can you assist a person who has a foreign body in the ear?
.....

6. The razor blade was left outside for a night in the morning it had rusted. What made a razor blade to rust?

.....
7. How does the life history of the cockroach differ from that of a butterfly?

.....
8. Suggest one possible reason why immunization of children is emphasized in Uganda.

.....
9. Why is dew formed at night?

.....
10. What can be done to lower the temperature of a person with high fever?

.....
11. How does paraffin which is poured over stagnant water kill mosquito larva?

.....
12. Give any **one** use of leaves to a plant.

.....
13. How do road builders increase friction on the surface of the road?

.....
14. Give any bone activity that a teacher can do during a health parade in a school to promote health

.....
15. Why does smoke go up when firewood is burning?

.....
16. which part of the blood helps in the clotting of blood?

.....
17. Why is mulching a good practice to as human growers?

.....
18. Why is it necessary to brush teeth after every meal?

.....
19. Why does a chameleon change the colour of its body?

.....
20 How is the retina of human eye similar n to the firm of a camera?

.....
21 How are seeds of a mango dispersed?

.....
22. Which method would you use to find the value of an irregular object.

.....
23How is the respiration of a tadpole similar to that of a fish?

.....
24. Peter water put gout fire caused by petrol but the continued Burning. suggest one thing he should have used to put off the fire.

.....
25. Musa is long –sighted. draw the type of lens he should use to correct his eye problem.

.....
26. Give anyone reason which shows that animals and plants depend on each other.

.....
27. Why is it difficult to control poultry disease in free-range system?

.....
28. How does a tortoise protect itself against its enemies?

.....
29. Why are bacteria in rotting rubbish very useful to man?



30. Give one reason why mercury is used in thermometers instead of water.
31. Give the difference between freezing and condensation.
32. Give the difference between the way man and insects breathe.
33. When it is said that Badru is anemic, what is lacking in his blood?
34. State one disease that both a passive and active smokers may suffer from.
35. Why does blood go to the lungs before it is pumped to all parts of the body?
36. Find the density of an object whose mass is 10g and volume is 5cm^3
37. Give one reason why a bat is a mammal not a bird.
38. Give one way in which the sun is important to plants.
39. Give one reason why drugs should be prescribed by health worker before they are used by sick people.
40. How is an echo similar to an image?

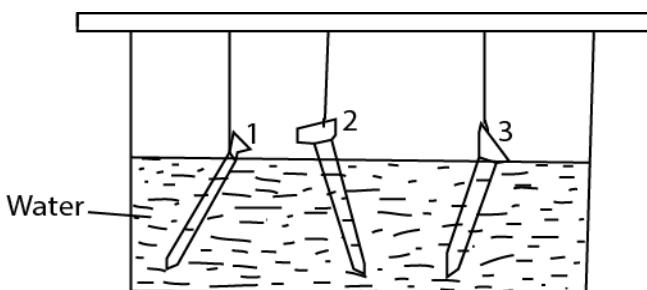
SECTION B

41. (a) Give any two reasons why school gardens are important

(b) Give any two reasons why you need to keep school farm records

42. nails were placed in water as indicated below for one week .us the information to answer to answer the question that follow.

- Nail 1 was painted
- Nail 2 was not painted
- Nail 3 was greased.



(a) Which of the nails above have changed its colour overnight?

(b) What will grease do in nail 3 above?

(c) Why are metal object painted?

(d) Which nails will remain unaffected?

.....
43. (a) If you put a saucepan of water on fire, how does heat travel by convection to make the water boil?

.....
(b) State three ways through which convection currents help to improve our environment.

(i).....

(ii).....

(iii).....

44. Some diseases can be treated without the use of drugs.

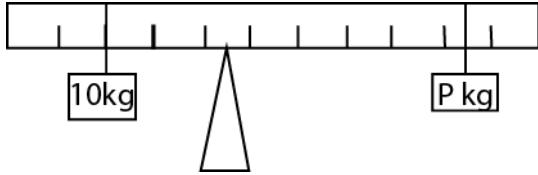
(a) Give an example of such a disease.

.....
(b) How would you treat the disease you have named in (a) above?

.....
(c) What do you understand by essential drugs?

.....
(d) Give one reason why it is not advisable for two patients to share drugs presented for one person.

45. The diagram shows a lever which is balanced, calculate the weight of P.



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

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

(i).....

(ii).....

.....
(c) Give the difference between photosynthesis and transpiration.

.....
47. (a) Why is it important to feel the pulse (heart beat) of a seriously injured victim of an accident?

.....
(b) What can a small boy or girl do when his or her older sister falls into water?

.....
(c) Why is it dangerous to cause a victim who has swallowed paraffin to vomit it ?

.....
(d) Why is First Aid given?

.....
48. (a) How can you tell by looking at the roots ,that a plant is a legume?

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

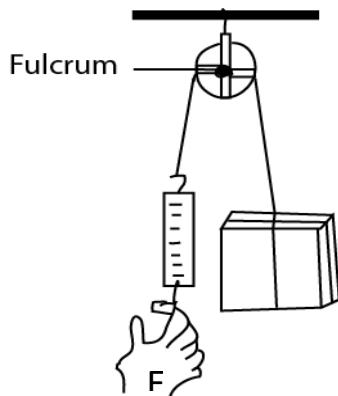
(i).....

(ii).....

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

.....
49. Use the diagram of the machine below to answer the question that follow.





(a) What is the name of such a machine?

(b) What class is it?

(c) Use letter e to show effort on the diagram.

(d) Which important activity in school is done using this machine?

50. (a) Give any one example of fungi.

(b) How do fungi reproduce?

(c) Give one way in which fungi are different from ferns

51.(a) What enables a drum to produce sound when it is hit with a stick?

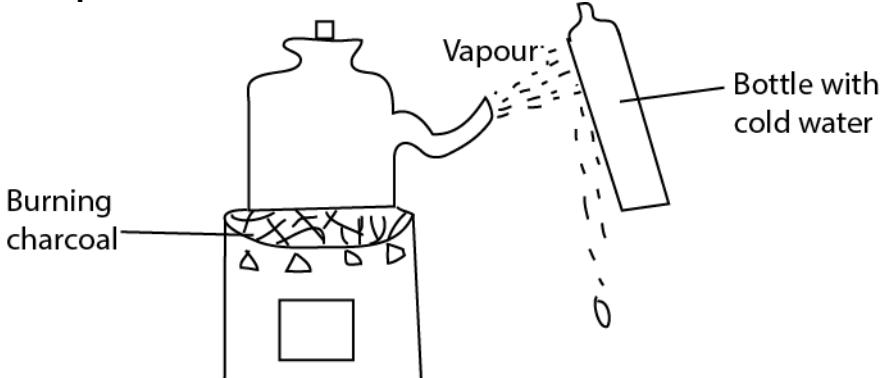
(b) Give a clear example that shows that light travels faster than sound.

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

(i).....

(ii).....

52. The diagram below is of an experiment performed in a class. study it and answer the question that follow.



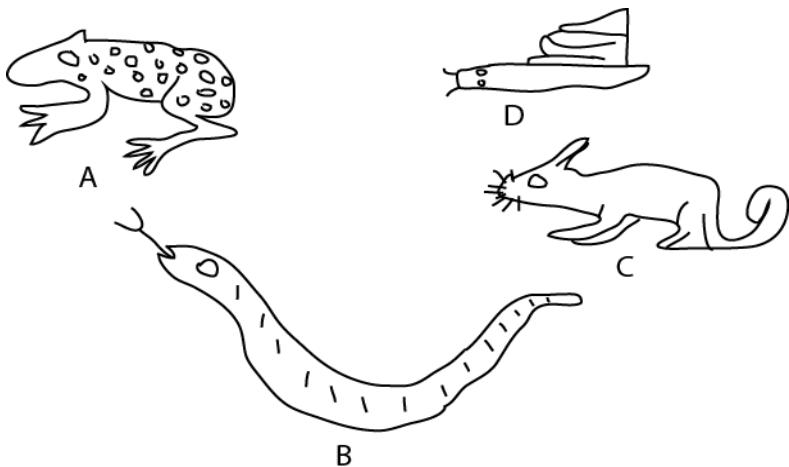
(a) What natural process in the environment does this experiment show?

(b) What does a stove (sigiri) represent in the process?

(c) What is the function of the bottle with cold water?

(d) Give any other local process that takes place in the same way.

54. The diagram below are of three pests. Use them to answer questions (a) and (b) below.



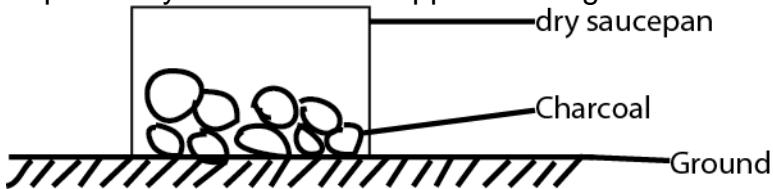
- (a) in which way are animals A, B and C similar?
.....
- (b) How is the reproduction in animals C different from that of the other animals?
.....
- (c) To which animals does animal A belong?
.....
- (d) How does animal D protect itself against its enemies?
.....

55. Draw a diagram showing how a shadow is formed .label your diagram correctly

SCIENCE 2000 SECTION A

1. Which substance can exist in all of the three states of matter?
.....
2. How does a millipede protect itself from danger?
.....
3. Why is a mushroom not a true plant?
.....
4. Why are canine teeth suitable for tearing food?
.....
5. Give one of the secondary sex characteristics that is common in both adolescent boys and girls.
.....
6. How is the function of motor nerves different from those of sensory nerves?
.....
7. Why is a dry season most suitable for crop harvesting?
.....
8. What is the importance of de-beaking in poultry?
.....
9. State any one sign of a dehydrated child.
.....
10. In the diagram below, burning charcoal was removed stove (sigiri) and it was covered by a dry saucepan as shown. After a short time, it stopped burning.

Explain why the charcoal stopped burning



11. Give one sign you would use to identify a compound fracture.

12. Why is the spacing of children important to a family?

13. State one external physical feature one would use to identify a cock in poultry.

14. What is soil erosion?

15. Give a reason why water passes through sandy soil fastest.

16. Alex keeps his left-over food covered. why does it go bad after some time?

17. Give one main difference between plants and animals.

18. Why is carbon dioxide used as a fire extinguisher?

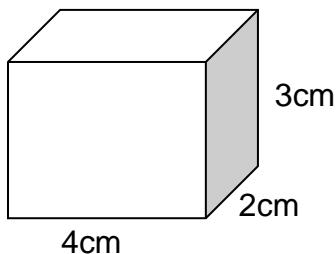
19. Mukasa's baby has these signs:

Very underweight, always hungry, Pot belly, bony face, Wasted muscles

What disease is the baby likely to be suffering from?

20. Beside use of seeds ,what other part of a flowering plant can be used for propagation?

21. The diagram below shows a chalk box. Find its volume.



22. State one of the characteristics of the objects that float on water.

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

Study the animals given in list A and those in B .Use it to answer questions 24 and 25

A: Fish, Bird, Frog

B: Man, Whale, Bat

24. How do animals in list A differ from those in B as regards reproduction?

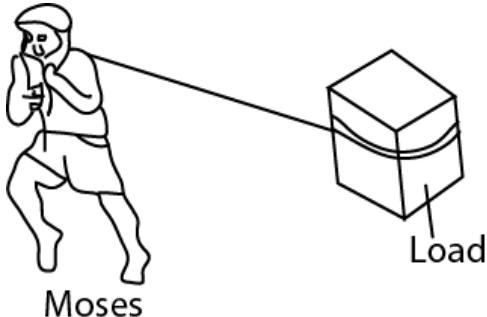
25. How are animals in list A similar to those in list B?

26. What is the source of energy in thermal electricity?

27. Give one way in which friction is useful to a person riding a bicycle.

28. Josephine could only read her notes when the book was at a distance of not more than one metre from her eyes. What advice would you give Josephine?

29. In the diagram ,Moses is pulling a load on the ground surface, as shown below.



How could Moses make his work easier?

30. What is the First Aid for high fever?

31. In terms of machines ,how is the hammer similar to the human arm?

32. What should be done to a clinical thermometer before taking the temperature of a person?

33. How can a child acquire artificial immunity?

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

35. What is one possible danger of buying drugs from local shops or markers?

36. What is near drowning?

37. What feature enables a housefly to spread germs?

38. Why is budgeting in a family useful?

39. Give one example where bacteria are useful to man .

40. In the space below ,draw a diagram to show self –pollination in a flower.

SECTION B

(a) Give two characteristics of insect pollinated flowers.

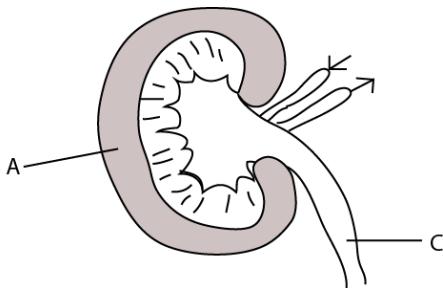
(i).....

(ii).....

(b) Why is a moth able to pollinate plants at night?

(c) State the difference between self-pollination and cross –pollination .

42. The diagram below shows the structure of a kidney. Use it to answer question (a) and (b)



(a) Name the part labelled with letter A.

.....

(b) What substance goes through the part labelled C?

.....

(c) state any two function of the kidney that are similar to those of a skin.

(i)

(ii)

43.(a)state any one characteristics of social insects.

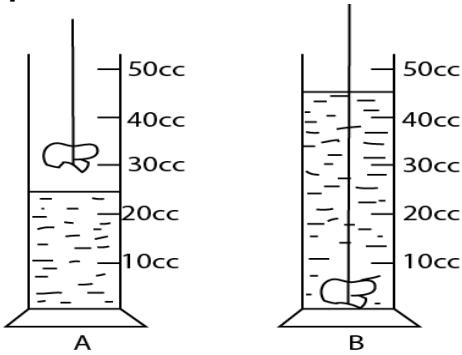
.....

(b) Give any two characteristics of flowers which attract bees to visit them.

.....

(c) Why is a worker bee not able to reproduce?

44. The diagram below is a method of measuring an irregular object .study it and answer question that follow.

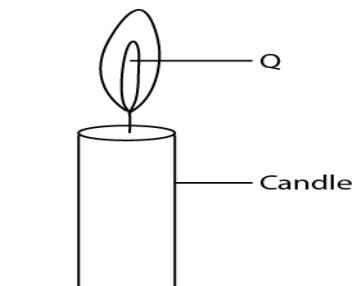


(a) Calculate the volume of the stone.

.....

(b) Name the method used to find the volume.

45. The diagram below is of a burning candle. Use it to answer question(a) and (b)



(a) What two forms of energy are given off at Q?

(i)

(ii)

(b) What gas is supporting the process?

(c) What other process in living thing produces the same gas as the candle?

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

BEANS, RICE, CABBAGE, MILK, ORANGES.

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

(i).....

(ii).....

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

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

47. In the diagram below, when the nail was brought nearer to the magnet it was attracted as shown. use the diagram to answer questions (a) to (d) below.



(a) How does the nail get magnetized?

(b) Name the pole marked L.

(c) which other method can be used to magnetize the nail without using a magnet?

(d) Name the type of a magnet in (c)

48. (a) What is the use of First Aid box?

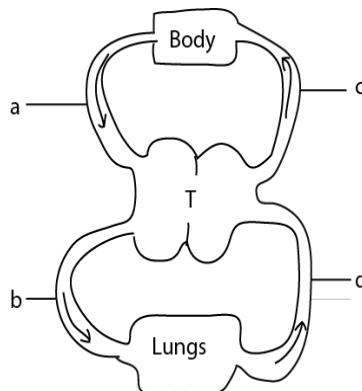
(b) What is meant by drug abuse?

(c) Give any two pieces of advice to a person who is on drug abuse.

(i).....

(ii).....

49. The diagram below is an illustration of a blood circulation system in a mammal. Study it carefully and use it to answer questions (a) and (b) below.



(a) What body organ does part T represent?

(b) What is the difference in the blood carried by blood vessels marked b and c.

(c) Give the difference between an artery and a vein.

50. Complete the table below which shows some disease and how they are spread among people

Disease	How it is spread
Gonorrhea	(i).....
(ii).....	Infected dog bite
Tetanus	(iii).....
(iv).....	Through air by coughing

51.(a) What first aid will you give to an accident victim?

(b) Explain how you will administer first aid nose bleeding.

(i).....

(ii).....

(iii).....

52. (a) Name two agent of soil erosion.

(i).....

(ii).....

(b) How does trees stop soil erosion?

(c) How does tree-cutting in an area lead to soil erosion?

53. (a) What is water pollution?

(b) Suggest any two ways in which a community can improve on water source.

(i).....

(ii).....

(c) Why is borehole water safer to drink than well water?

54. Suggest any two methods that can promote the idea of PHC in a school.

(i).....

(ii).....

(b) What element is promoted in PHC?

(c) Identify any two activities that committees should do in your village.

(i).....

(ii).....

55. the table below shows part of child's immunization card .Use it to answer question

(a) to (d) below

	1	2	3
BCG	12/8/88	16/12/88	
POLIO	11/8/88	16/12/88	13/01/89
DPT	11/8/88		13/01/89
MEASLES	9/5/89		COMPLETED

(a) When was this child born?

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

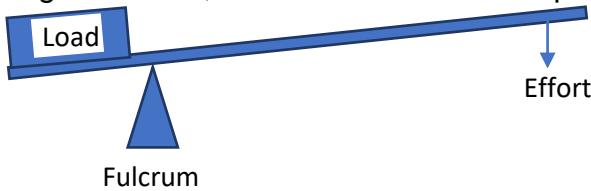
(c) At what age was the immunization completed?

(d) Give a reason for your answer in (c) above



SCIENCE 1999
SECTION A

1. Give the functions of the feeler of an insect.
.....
2. Draw a simple diagram of a red blood cell in the space provided below.
.....
3. Name one breed of pig commonly kept in Uganda.
.....
4. Why is a person suffering from diarrhoea given treatment for dehydration?
.....
5. State any one practice which may prevent hook-worm infestation.
.....
6. Give one example of a green plant which reproduces by means of spores.
.....
7. State the most important part of the nervous system.
.....
8. State one way in which a spider is similar to a cockroach.
.....
9. State one way in which the retina of human eye is similar to the film of a pinhole camera.
.....
10. In the diagram below, what class of lever is represented.



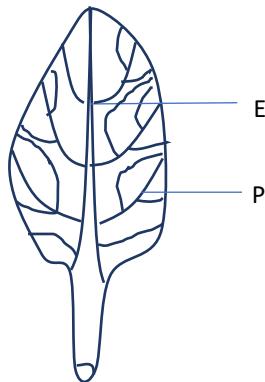
11. What food nutrient are leguminous crops rich in?
.....
12. Give one of the functions of the human ear.
.....
13. Which body system is commonly infected by polio?
.....
14. Why would animals in a paddock system not easily be attacked by East Coast Fever.
.....
15. What is the immediate result of fertilization in both plants and animals?
.....
16. Which type of sheep is reared for wool.
.....
17. Which condition is caused by shortage of red blood cells in the body?
.....
18. How does the lens shown below affect light rays.
.....



19. Which big mammal lives its whole life in water?
.....
20. State the first stage of soil formation from rocks.
.....

21. Why it is important to look left, right then left again before crossing the road?
-
22. What is the importance of human teeth in the digestion of food?
-
23. What type of electricity is obtained by rubbing a plastic material against hair or woolen cloth?
-
24. Apart from contour ploughing, strip ploughing and mulching, give one other practice which is useful for soil conservation on hilly ground
-
25. What happens to the blood as it passes through the kidney?
-
26. What type of change occurs to an egg which has been left in boiling water or more than ten minutes?
-

Use the diagram of a leaf below to answer questions 27 and 28

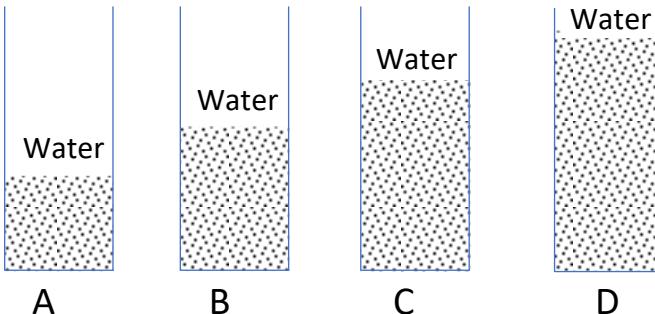


27. What is part marked P?
-
28. Give one function of part E.
-
29. Why do you think photosynthesis is not likely to take place at night?
-
30. State any one biological change which occurs in female adolescent but not occur in male ones?
-
31. Why is it dangerous to stay near a person who is smoking?
-
32. Why is osmosis an important process in for plants?
-
33. What is the danger of taking drugs that are not prescribed by a health worker?
-
34. Give **one** example where filtration process is used at home.
-
35. When Peter looked into a plane mirror, he saw his face at the back of a plane mirror.
How did the face get into the back of plane mirror?
-
36. Why is it advisable for parents to take their children for immunization?
-
37. Why should a girl avoid teenage pregnancy?
-
38. How can water vapour be turned into a liquid?
-
39. Why is it not advisable to use water to put off fire caused by petrol?
-

40. What is the importance of keeping clothes clean?

SECTION B

41. The diagram below shows glass tubes of the same size with water at different levels as indicated. Study them and answer the questions that follow.



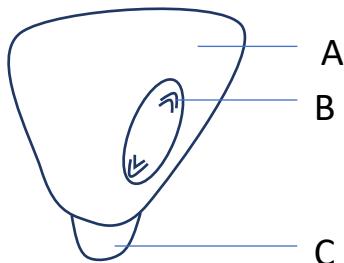
(a) If each tube is blown separately, which one will produce

- (ii) Highest sound.....
- (iii) Lowest sound.....

(b) What happens to the sound produced by A if water is increased to the level of the tube D?

(c) What happens to the sound produced by each of the tubes if water was replaced by the same quantity of milk?

42. The diagram below is for a maize grain. Study it and answer the questions (a) to (d) which follows



(a) How is the part marked C useful to the grain?

(b) What does part marked B become during germination?

(c) What is the importance of the part marked A?

(d) Which of the marked parts is not important in germination?

43. **A mill bug is a common crop pest.**

(c) Name any two vegetable crops it affects

(d) What can be done to prevent it from attacking the crops you have named in (a) above?

(e) What natural method controls milli bug pests in a garden?

44. (a) What is a magnet?

(b) Give one example of how a doctor in a hospital can use a magnet.

(f) Give two items found in homes which make use of magnets.

45. When measles attacks a child, there are signs and symptoms:

(a) Give an example of:

(i) a sign of measles

(ii) a symptom of measles

(b) In which way can measles be prevented from attacking a baby?

(d) Why is it important to give a child suffering from measles plenty of fluids to drink?

46. (a) give the type of chicken reared for:

(a) Meat.....

(b) Eggs.....

(b) Suggest two ways you would care for chicken to improve upon egg production.

47. (a) Name one practice which increases the spread of bilharzia.

(b) Which vector is important in the spread of bilharzia.

(c) Give any two ways of preventing the spread of bilharzia.

48. (a) Draw two dry cells arranged correctly and ready to give light in a bulb.

(b) If you get a new torch with new dry cells and new working bulb in place, but when you switch it on, the bulb does not light. Suggest two possible problems with the torch.

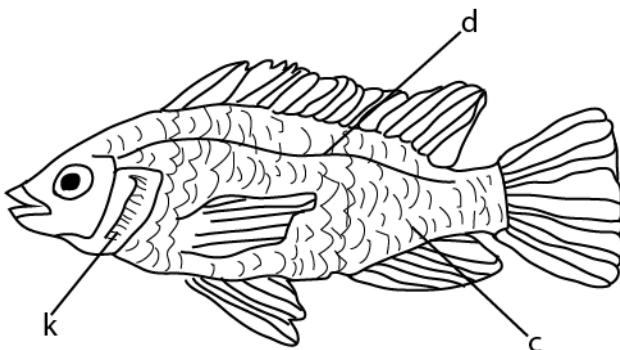
(a) What is first Aid?

(b) Why would it be dangerous for a boy of 11 years to try to remove an adult, who is near drowning, from water?

(c) Suggest two things the boy in (b) above should do to save the adult from drowning.

49. The diagram below is a fish. Study it and answer the questions which follow.





- (a) Mark with letter P, the part which enables the fish to move forward.
 (b) What is the function of part marked C?
-

- (c) Complete the table to compare the parts marked k and d to those of a goat.

Parts in fish	Name the similar part in a goat
(a) K
(b) D

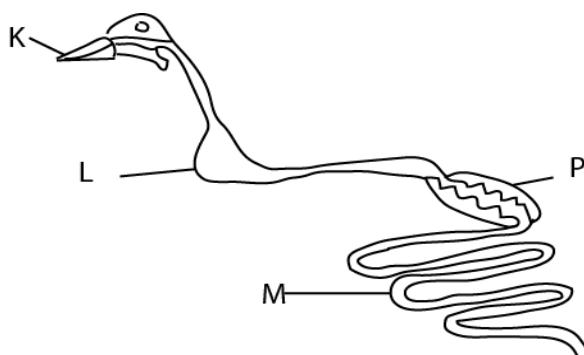
50. (a) What is the mixture of two or more metals
-

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

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

- (d) apart from painting, give any one method of preventing a metallic object from rusting.
-

51. The diagram below shows the alimentary canal of a bird. Use it to answer the questions that follow.



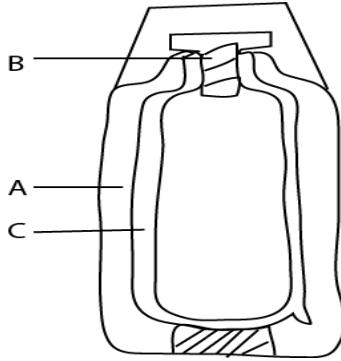
- (a) What does the bird use part K for?
-

- (b) What is the function of part L?
-

- (c) What takes place in part marked P?
-

- (d) How is part marked M useful to the bird?
-

52. The diagram below is of domestic item. Study it and answer the question that follow.



(i) What is part marked A made of

.....
.....

(ii) What is the function of part marked C?

.....
.....

(iii) Why is part marked B useful in this item?

.....
.....

(iv) Why is it that many homes do not use the item?

.....
.....

53.(a) State any two qualities of an essential drug.

.....
.....

(b) Give any two advantages of laboratory manufactured drugs over traditional ones

.....
.....

54.(a) If the temperature of tea which is 45°C reduces by 15°C . what will be the temperature of the tea.

.....
.....

(b) Change your answer in (a) above to Fahrenheit Scale.

SCIENCE 1998

SECTION A

1. Give any one reason why you think that brushing of teeth prevents tooth decay.

.....
.....

2. Give one example of where refraction of light can be a disadvantage.

.....
.....

3. How is a person get infected with tetanus?

.....
.....

4. Suggest one way of preventing poultry from pecking each other.

.....
.....

5. What is drug abuse?

.....
.....

6. Give the importance of bacteria found in root nodules of leguminous plants to the soil.

.....
.....

7. Metals are usually painted to prevent them from rusting. How is painting help in stopping metals from rusting?

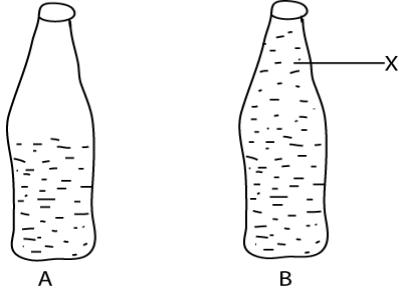
.....
.....

8. If your friend accidentally pours hot milk on his/her hand, what First Aid would you give him or her.

.....
.....

9. Give one reason you think mushrooms are similar to fungi.
.....
10. Suggest one way through which foot and mouth disease spread in cattle.
.....
11. Give one sign of syphilis.
.....
12. How is a habit of bee visiting flowers important to the plant?
.....
13. Suggest one reason why dew usually forms at night and not during day?
.....
14. What is the importance of mineral salt in a child's diet
.....
15. How do human action controlled by the spinal cord different from those which are controlled by the brain?
.....
16. Give an example of a ball and socket joint in human being.
.....
17. Give one way in which friction is a disadvantage.
.....
18. State any one function of human kidney.
.....
19. What is the importance of a nursery bed to a vegetable farmer.
.....
20. Give any one reason you think a plant is a living thing.
.....

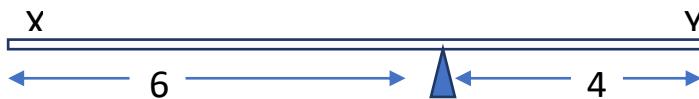
John poured paraffin in the bottle as shown in A below. He added water to fill the bottle as shown in B below. Use the diagram to answer questions 21 and 22.



21. Name the liquid labelled X
.....

22. Give a reason for your answer in question 21 above.
.....

Use the diagram below to answer question 23.



23. Isaac who weighs 30kg and Susan who weight 45kg sit on seesaw above, such that Isaac sits at point X and Susan at point Y. which side of the seesaw go down?
.....

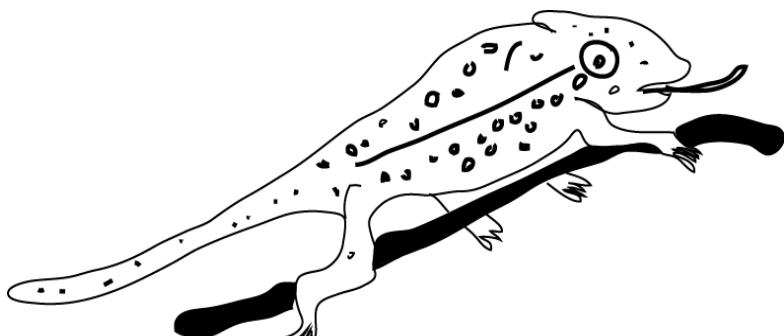
24. How does leprosy spread?
.....

25. Apart from being a state of matter, in which way are liquids similar to gases?
.....

26. Give any one way in which a child can acquire immunity against a disease without being given a vaccine.
.....

27. Give one example on how man uses water to produce energy.

The diagram below shows an animal commonly found in the school surroundings. Use it to answer questions 28 and 29



28. To which group of animals does this belong?

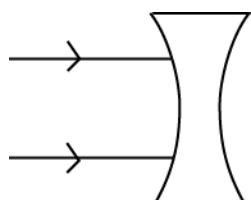
29. How does the animal protect itself from its enemies?

30. What advice would you give to a mother whose child is suffering from kwashiorkor?

31. Which structure of an insect has the same function as gills in fish?

32. John threw a blanket on to a burning fire and the fire was put out. How did the blanket help in putting out the fire?

33. Complete the rays through the lens in the diagram below.



34. Suggest one reason why blood goes to the lungs before it circulates to all parts of the body.

35. Why do electricity wires hanging on the electric pole sometimes, appear loose and other times tight?

36. Which part of the eye function like a film in a camera?

37. Which body organ is damaged when you drink a lot of alcohol?

38. Give any one reason why it is not advisable to buy and use medicine from local shops?

39. Peter's friend is suffering from scurvy. Suggest reasons why Peters friend is suffering from that disease.

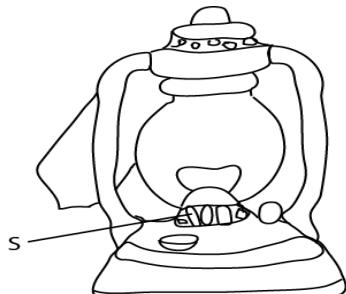
40. Give any one way a farmer can improve on the local breed of cattle.

SECTION B

41. Most of our problems can be solved without use drugs. Suggest any four ways in which this can be done.

.....
.....

The diagram below shows a lantern lamp. Use it to answer question 42



42. (a) how does paraffin move up through the wick?

.....

(b) Name two forms of energy produced by this lantern lamp.

.....

(c) what is the use of part marked S.

.....

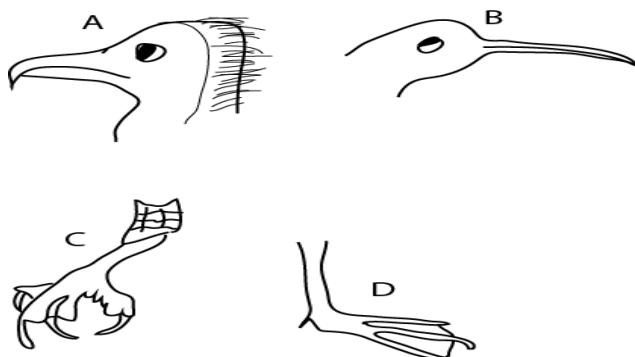
43. (a) Give two ways in which you can prevent malaria in your home?

.....

(b) Suggest two reasons why HIV/ AIDS infection tends to be more common among female adolescents than in the male adolescents?

.....

44. The diagram below shows the beaks and feet of birds. Use it to answer the questions that follow.



(g) Suggest the type of food that part labelled A feed on.

.....

(h) How does the bird use the claw (foot) labelled C for feeding?

.....

(i) What type of food is suitable for the bird's beak labelled B?

.....

(j) How useful is the foot labelled D to the bird?

.....

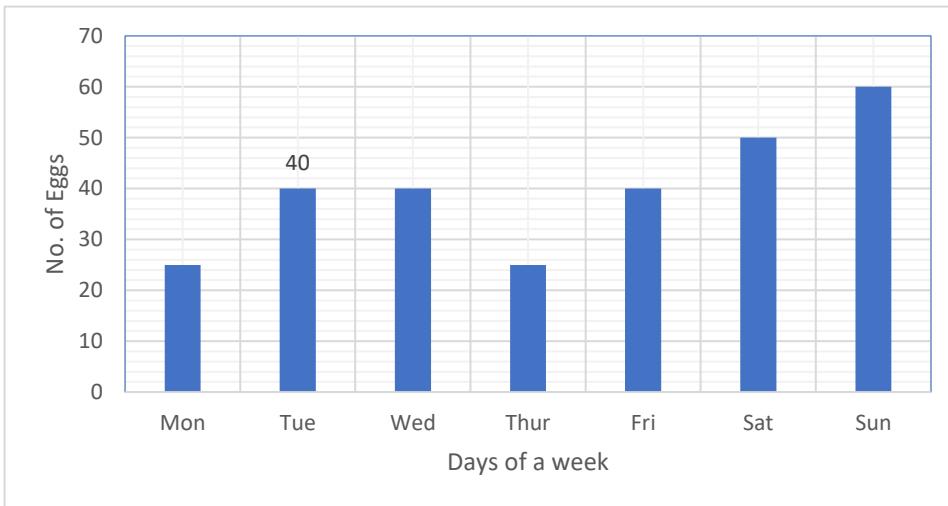
45. (a) Give two functions of the nerves in e human body.

.....

(b) In which ways is food important in the human body

46. Give any four methods commonly used to preserve meat.

47. The graph below shows the number of eggs laid on a poultry farm



(a) On which day was the highest production recorded?

(b) What was the average number of eggs produced per day?

(c) If an egg cost shs. 100/= how much money did the farmer get that week?

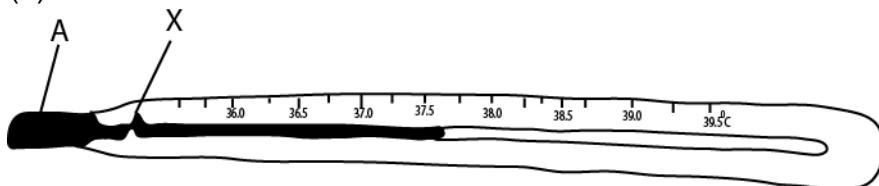
(d) Suggest the problem which could have caused the low production on Monday and Tuesday?

48. (a) What is the use of fuse in a circuit?

(b) Give three reasons why a bulb of torch may not give light when the switch is on.

49. Describe an experiment to show that air has weight?

50. The diagram below shows a common instrument. Use it to answer the questions (a) to (d).



(i) What is the use of the above instrument?

(ii) Name the liquid labelled A.

.....

(iii) Why is the liquid named in (b) used in the instrument?

.....

(iv) What is the importance of part marked X?

51. (a) Name three things required by leaves for the process of photosynthesis to take place.

.....

.....

(b) Give the importance of photosynthesis to the flowering plants.

.....

52. (a) What type of immunity does a child get in each of the following

(i) From mother to child.

.....

(ii) After immunization

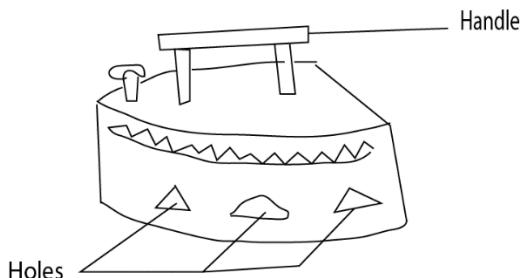
.....

(iii) After suffering from a disease like measles?

.....

(b) Why should a pregnant mother be immunized against tetanus?

53. The diagram below shows a charcoal flat iron box.



(a) Why is the handle of the flat iron box made of wood?

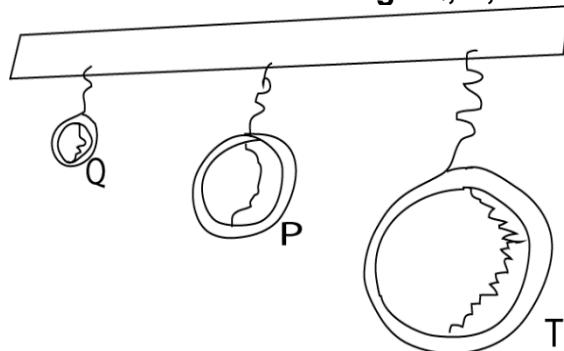
.....

(b) State two uses of holes in that iron box.

.....

(c) How does heat from the iron box reach the user's body?

54. The diagram below shows three metallic rings Q, P, T.



(a) Which ring will produce:

(i) sound of a low pitch?.....

(ii) Sound of a high pitch?.....

(b) Name any two devices that can be used to store sound.

.....

55. Suggest four reasons why physical exercise are important to our bodies

.....

PRIMARY LEAVING EXAMINATION Science 1997

1. Apart from oxygen, name any one other part of air
-
2. Give one difference between algae and fungi
-
3. How is a vector different from a pest?
-
4. Bbosa breathed on a mirror several times. He could not himself clearly later, why?
-
5. Mention one agent of soil erosion.
-
6. Why is water necessary for germination?
-
7. Why is the skull important part of the body?
-
8. Apart from learning about animals and crops, suggest one other reason for starting a farm
-
9. Name the tooth in the diagram below.



10. Why is a concave lens used to correct short sightedness?

.....

11. Give one danger of poor disposal of human faeces.

.....

12. Why should a pit latrine be covered?

.....

13. What is the use of a dustbin in a home?

.....

14. When does a person become dehydrated?

.....

15. What happens when an industry releases a lot of smokes to the atmosphere?

.....

16. Explain why a borehole water safe to drink.

.....

17. Explain one way of keeping food safe and clean.

.....

18. Why should children eat more proteins than the old people?

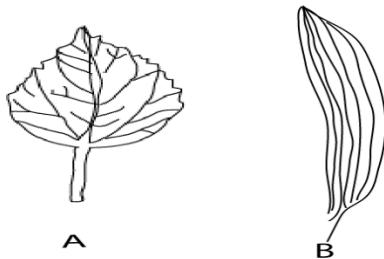
.....

19. State any way in which spiders are different from insects.

.....

20. Give one way in which flowering plants are useful to man.

21. The diagram below shows different leaves, A and B.



Which of the following leaves is from monocotyledonous plant?

22. Apart from the leaf structure, give one other difference between monocotyledonous plant and dicotyledonous plant.

23. Give the main use of leaves to the plant.

24. State one reason why burning and breathing are similar.

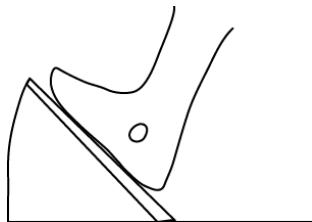
25. What change takes place when you eat food and get energy.

26. State the difference between conduction and radiation.

27. Explain why light is seen before sound is heard during lightning.

28. When drawing water from a borehole, why is the handle led far from the fulcrum?

29. The diagram above shows the foot of a driver accelerating the car. Indicate on it with letter L, the position of the load



30. State any one way in which the First Aid for a cut is different from First Aid for a burn.

31. Why do you wash your hands before eating?

32. State one reason why it is not advisable to have many children.

33. Why shouldn't people with AIDS be isolated?

34. Name the difference between pit latrine and VIP latrine.

35. Apart from the type of soil, name one factor to consider when constructing a house.

36. Mention one reason why drinking water should be boiled

37. Name the vaccine which is given to a child at birth.

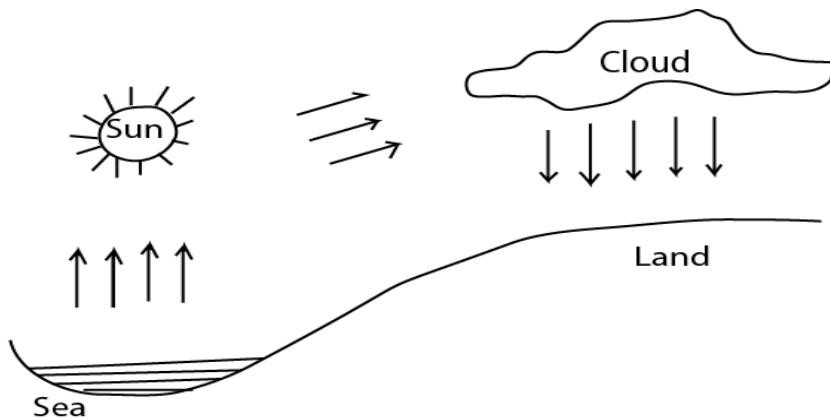
38. What does the vaccine mentioned in number 37 protect the child against?

39. Mention one of the services of public Health Care (PHC)

40. Why should we bathe daily?

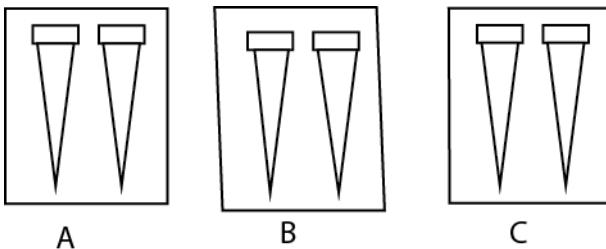
SECTION B

The diagram below shows the cycle. Use it to answer 41.



41. Describe how rain is formed.

42. The diagram below shows two nails under three different conditions



In A – the nails were wrapped in clean wet cloth

In B – the nails were wrapped in clean dry cloth

In C- the nails were smeared with oil and then wrapped in a clean wet cloth.

(a) In which case did the nail rust?

(b) What is the importance of smearing with oil

(c) Name two conditions necessary for rusting.

43.(a) Name three activities performed when preparing a school garden

(b) why is a school garden fenced?



44. (a) State two types of chicken which are kept for special purpose.

.....

(b) Name the purpose of keeping one of the types mentioned in (a) above.

.....

(d) Name one advantage of keeping local breeds of chicken.

.....

45. (a) Mention the structure that joins a bone to a muscle

.....

(b) give one example of the following types of joints

(i) hinge joint.....

(ii) ball and socket joint.....

(c) Name the food substance that help in formation of strong bones.

46. (a) Name one change that occur during adolescence in

(i) Male.....

(ii) Female.....

(b) State two factors you consider when choosing a partner for marriage.

.....

47. (a) what is STDS?

.....

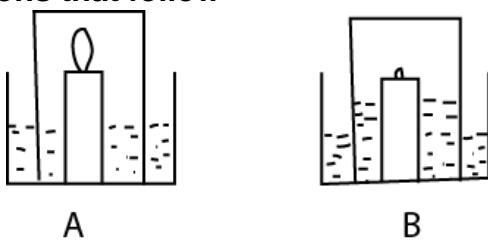
(b) Give two examples of STDS.

.....

(c) State one way in which STDs can be controlled.

.....

48. The diagram below shows two stages in an experiment. Use it to answer the questions that follow



(a) Why did the candle flame go off in B?

.....

(b) What happened there after?

.....

(c) Name the gas inside when the candle flame goes off.

.....

(d) What is the air used for?

.....

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

Mouse, chameleon, frog, python

(a) Which two animals can be grouped together?

- (b) Give a reason for your answer in (a) above
- (c) Which animal has a different form of reproduction from others?
- (d) In which environment do you find the frog?

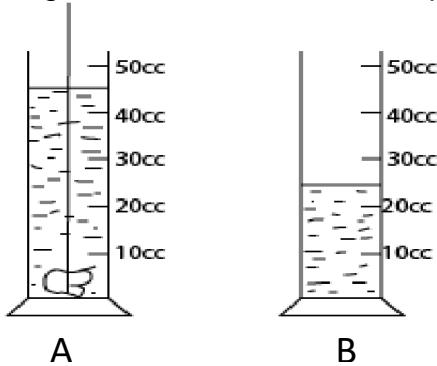
50.(a) In the space below, draw an example of:

(i) A tap root system

(ii) A fibrous root system

(b) Give one use of roots to a plant and one use to man.

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



(a) What is the volume of the stone?

(b) Calculate the density of the stone if its mass is 450g.

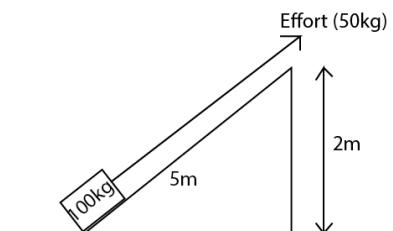
52. Uganda Electricity Board generates its electricity at Jinja.

(a) How does electricity reach a consumer in Mbale?

(b) Give two uses of electricity

(c) Name the causes of short circuit.

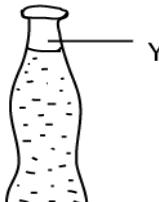
53. The diagram below shows a machine used to lift a load using an effort of 50kg



(a) Name the machine.

- (b) What distance does the load and effort move through?
.....
- (c) How can you use less than 50kg to pull the load?
.....
54. (a) Mention two reasons why people drink alcohol.
.....
- (d) Name one effect of drinking alcohol has on
(iii) An individual.....
(iv) A family.....
55. (a) State two conditions that are likely to a family ill?
.....
- (b) Mention two diseases that people who live in unhealthy conditions can suffer from.
.....

PRIMARY LEAVING EXAMINATION
Science 1996

1. Common salt give flavor to our food. State on more use of salt in our diet.
 -
 2. In which way is burning similar to rusting?
 -
- The diagram below is of a sealed soda bottle. Use it to answer questions 3 and 4.**
- 
3. Why was the space labelled Y left in the bottle?
 -
 4. Name the gas that bubbles out when the soda is opened.
 -
 5. Apart from light, carbon dioxide and water, what else does a leaf need to accumulate food?
 -
 6. Why is a person who is suffering from diarrhoea given oral rehydration salts?
 -
 7. The driver started at 8.00am from Kampala. He reached Masaka which is 120km at 10.30am. what was his average speed?
 -

8. Peter's maize did not do well because he left weeds in the maize garden. What are weed?
-
9. State one method of avoiding tooth decay.
-
10. What is the use of an anemometer in a weather station?
-
11. What First Aid would you give to a person who is bleeding through the nose?
-

Bbosa has the foods named below to feed his family. Use the list to answer questions 12 to 15

Mangoes, Potatoes, Beans, Rice, Green dodo

12. Mrs. Bbosa has anaemia, which food from the list would you advise her to eat?

.....
13. Give reason for your answer in question 12.

.....
14. Which food from the list would you recommend for Bbosa's child suffering from Kwashiorkor to eat?

.....
15. Give a reason for your answer in question 14.

.....
16. What type of a family has the following, husband, wife, daughter and nephew?

.....
17. State some one major reason why breast milk is considered the best food for a baby?

.....
18. Why is mercury is used in a thermometer?

.....
19. Why is a child immunized against measles at age of 9 months but not soon after birth?

.....
20. State one way of reducing friction.

.....
21. Why is it advisable to cover your mouth with handkerchief when sneezing?

.....
22. What is the importance of red blood cells in human body?

.....
23. Give one reason why loam soil is good for planting crops?

.....
24. Scurvy is cause by lack of a vitamin. Name the vitamin.

.....
25. Name the main food you would eat to prevent scurvy?

.....
26. In the space below, draw a monocotyledonous plant.

.....
27. What part of the ear is likely to be damaged if you clean your ear with a sharp object?

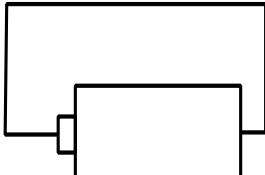
.....
28. Calculate the mass of an object whose volume is 15cm^3 and density is 30g/cm^3 .

.....
29. State one reason why David should keep record on his farm.

.....
30. Okol lost all the molars. What problems is he likely to have while eating?

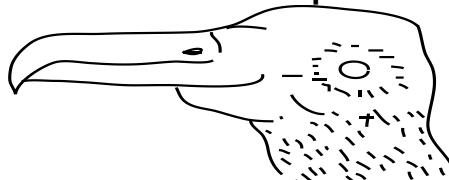
.....
31. State one way in which a family can avoid the spread of tuberculosis.

.....
32. **In the diagram below indicate using an arrow the direction of the flow of electricity.**



33. State one reason why water is important in our diet.
-
34. What is the best way of protecting cattle against foot and mouth disease?
-
35. State one characteristic of an image formed by a pin hole camera.
-
36. State a mammal which lives in both land and water in Uganda.
-
37. What is weaning a child?
-

Use the picture of an animal below to answer question 38 and 39

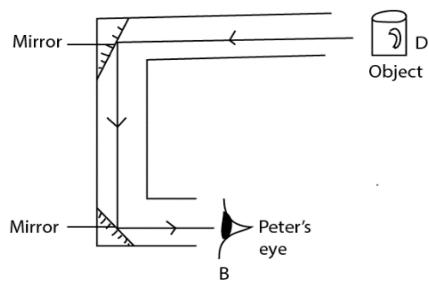


38. What does the animal shown in the picture above feed on?
-
39. Why do you think the animal above is important in our community?
-
40. Give one example of underground stem.
-

SECTION B

41. Kandi stepped on a burning charcoal by accident. He immediately removed the foot.
- (a) What name is given to his immediate reaction?
-
- (b) Which part of the body controls this type of reaction?
-
- (c) Name the muscles which helped Kandi to remove the foot immediately.
-
- (d) What first Aid would you give Kandi?
-

42. **The diagram below represents an instrument used in science. Use it to answer the questions that follow:**



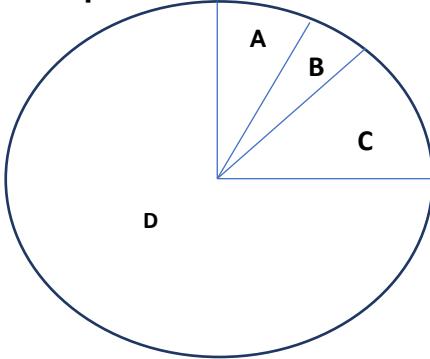
- (a) How is Peter at position B able to see the object at D?
-
- (b) What type of mirrors are used in this instrument?
-
- (c) What is the name of this instrument?
-
- (d) Give the situation where this instrument is used?
-
43. (a) State one reason why a frog is able to live both on land and water comfortably.
-

(b) to which group of animals does it belong?

(c) What helps a frog to swim easily?

(e) How does it protect its eggs?

44. The pie chart shows the proportion of air. They are labelled A, B, C, D. use it to answer the questions that follow.



(a) Which letter in the pie chart represents the gas which supports both breathing and burning?

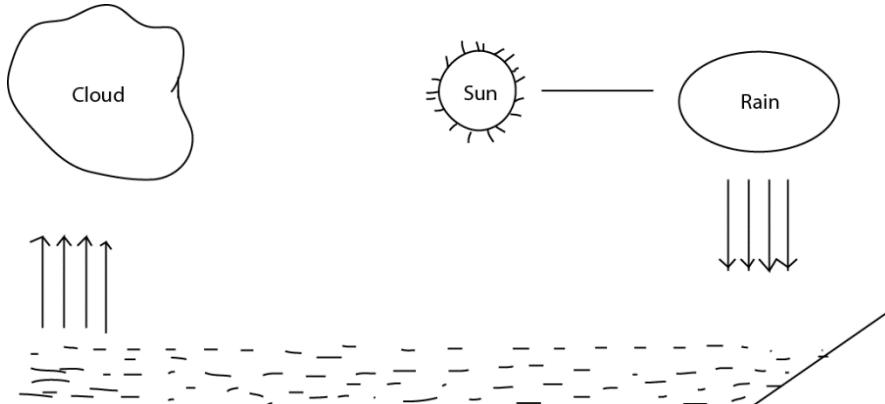
(b) What is the use of the gas labelled A?

(c) Name the gas labelled

(i) D:

(ii) A:

45. The diagram below shows how rain is formed. Use it to answer the questions that follow.



(a) What causes the water vapour to rise from the river as shown in the diagram?

(b) What happens to water vapour at B?

(c) Name the force that helps rain to fall.

(d) What name is given to the process shown in the diagram?

46. (a) How does a banana plant multiply?

(b) What insect pest attacks banana?

(d) In which part of the plant would you find this pest?

(d) State the method you would use to control the insect pest.

47. Lightening is dangerous to man

(f) State two precautions you would take to avoid being struck by lightning.

(g) Which forms of energy does lightning have?

48. Bbosa wants to start a livestock farm. State any four basic requirement he must consider for his farm to succeed.

49. Food was given to very hungry children and they ate it very fast without chewing.

(d) State any two problems that are likely to affect their digestion system.

(e) State **two** uses of saliva in the digestive system.

50. (a) Give two reasons why First Aid is given to a patient.

(f) State two reasons why proper medical prescription is necessary before taking any medicine.

51. The table below shows crops pests and the crop they destroy. Complete the table by filling in the blank spaces.

Pest	Crop
(i)	Potato leaves
(ii) Birds
(iii)	Orange leaves
(iv) Aphids

52. (a) Name any two immunisable diseases caused by bacteria.

(g) State two uses of Health cards

53. The diagram below shows a boy collecting water from a water pump. Use it to answer the questions that follow.



(a) Mark on the diagram with letter E the position of the effort.

.....
.....

(b) What does the part marked X represent?

.....
.....

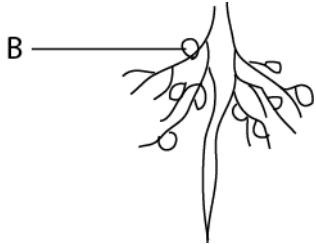
(c) What change would the boy experience if he moved the hands to position B?

.....
.....

(d) If the effort is 20, and the load is 80, what is the mechanical advantage of the pump?

.....
.....

54. The diagram below shows the root of a plant. Use it to answer the questions that follow.



(a) Name the part labelled B.

.....
.....

(b) What group of plants have such roots

.....
.....

(c) What does part labelled B contain?

.....
.....

(d) What is the function of what you named in (c) above?

.....
.....

55. Describe an experiment to show that water can exist in all three states of matter.

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

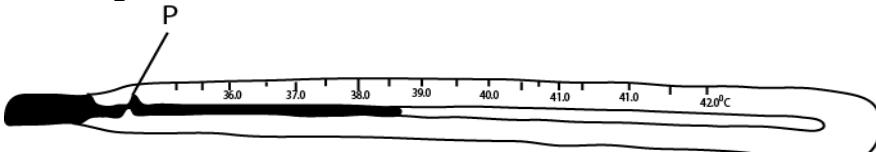
**PRIMARY LEAVING EXAMINATION
Science 1995**

SECTION A

1. Bbosa caught fish to feed for a month. Suggest one way by which Bbosa's family can safely keep the fish to last one month.

.....
2. Why are cockroaches classified as invertebrates?

The diagram below is of a clinical thermometer. Use it to answer questions 3 to 6.



3. What liquid is used in thermometer?

.....
4. What is the main function of the part labelled P?

.....
5. The temperature of a person was taken and the liquid rose to the level as shown in the diagram above. What was the person's temperature?

.....
6. Why would you suspect that person in question 5 above had malaria?

.....
7. Mention one way by which the supply of clean water in rural area is being improved.

.....
8. State one way in which bacteria is useful to man.

.....
9. Why are tape worms called parasites?

.....
10. Why does Uganda Electricity Board worker wear rubber gloves when working on wires carrying electricity?

.....
11. Name one disease which attacks both poultry and rabbits.

.....
12. How can a person become infected with tetanus?

.....
13. State one way in which evaporation is useful to man.

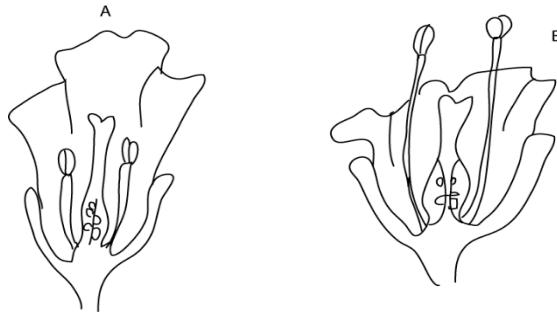
.....
14. What is the difference between the organism that cause the AIDS disease and that of gonorrhea?

Below is a table with column for vitamins, source of vitamins and the related deficiency diseases. Fill in the table to answer questions 15 to 17.

	Vitamin	Source	Deficiency disease
15.	Milk	Ricket
16.	A	Paw paw
17.	B ₁	Beriberi

.....
18. State one reason why air in the soil is important.

The diagram below are of flowers A and B. Use them to answer questions 19 and 21



19. Which of the two flowers is likely to be insects pollinated?

.....

20. Give one reason for your answer to question 19.

.....

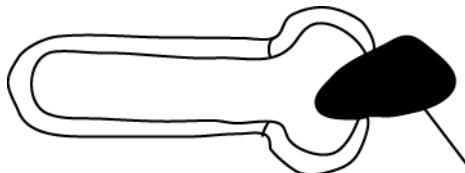
21. How is the other flower likely to be pollinated?

.....

22. Which First Aid would you give to a person who has a burn by fire?

.....

23. The diagram below is of a machine used for picking charcoal. Indicate on it, with letter F, the position of a fulcrum.

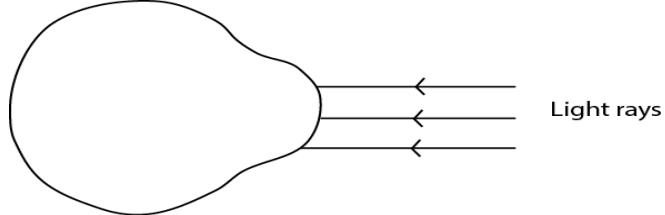


Hot Charcoal

24. Why should a woman eat more food when she is pregnant than when she is not.

.....

25. Complete the rays of light in the diagram below to show a condition of short-sightedness.



26. Name one function of the small intestine on an animal.

.....

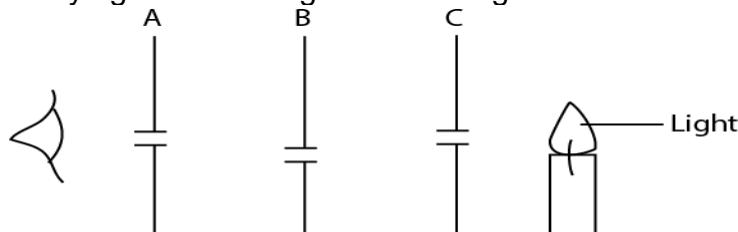
27. State one reason for juvenile delinquency (wrong behavior by children).

.....

28. Give the main reason why crop rotation maintains fertility.

.....

29. In the diagram below, A, B, C, d. are cards with small holes as shown below. Student at E is trying to see the light at A through the holes.



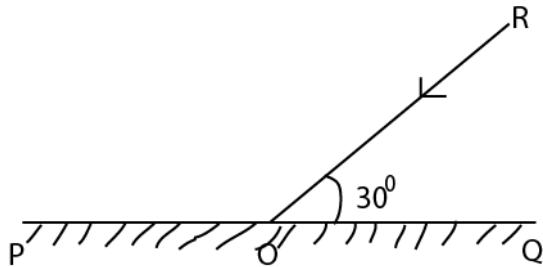
Why can't the light be seen at E?

.....

30. Why is it more difficult to breath in a room full of smoke than in an open compound?

31. What is the use of a nerve to a person?

The diagram below shows light falling on a plane mirror. PQ. Use it to answer question 32 and 33



32. Complete the drawing accurately, to see the reflected ray.

33. What is the value of the angle of reflection?

34. State **one** way by which body lice can be avoided?

35. Where does a ground nut store most of its food?

36. Why are mushrooms carry out photosynthesis?

37. State the main reason for planting seeds in the soil.

38. Bbosa is suffering from severe malaria. Why would you not advise him to take medicine than that prescribed by a medical doctor?

39. Sam dropped some oil on a piece of paper. Why does he fail to write with a ball pen on the sport where oil has dropped?

40. David is asked to find the volume of a piece of stone, the volume of which is about 300cm^3 . He was provided with 20cm^3 of water, a graduated cylinder and an over flow can. He found that this experiment would not work. Suggest one way how it can be made to work.

SECTION B

41. (a) State one type of cattle

(b) Name two breed of cattle found in Uganda

(c) give one advantage of cross-breeding with exotic bull.

42. Betty's home is near a pond.

(a) state any two diseases members of Betty's family are likely to suffer from.

(b) Suggest one thing that Betty can do to avoid one of the diseases mentioned.

(c) How is scabies spread?

43.(a) What do you understand by adolescence?

.....
.....

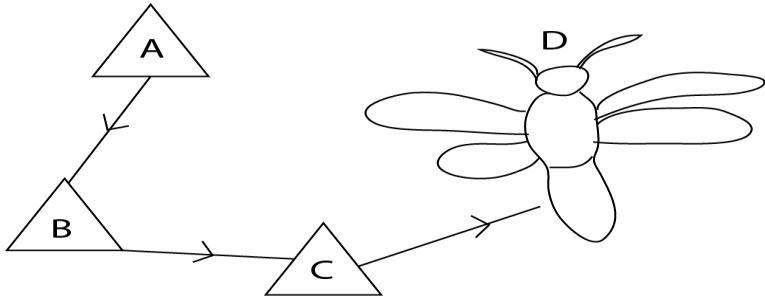
(b) Name two secondary sex characteristic of adolescence.

.....
.....

(c) Give one disadvantage of pregnancy in adolescence.

.....
.....

44. The diagram below shows the life cycle of a butterfly. Use it to answer the questions which follow.



(a) Name the stages A and B.

A.....

B.....

(b) At what stage is a butterfly a pest?

.....

(c) State one reason why a butterfly is classified as an insect.

45.(a) State any two ways of acquiring immunity.

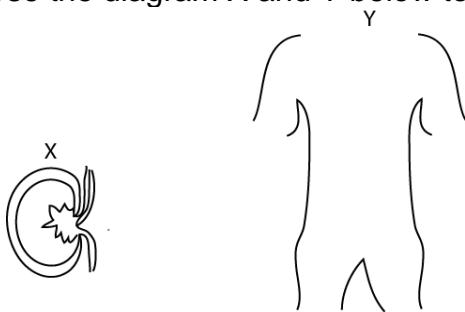
.....

(b) Apart from the six killer diseases, state any one other disease where one can acquire immunity.

.....

(c) Why is it not possible to acquire immunity against AIDS disease?

46. Use the diagram X and Y below to answer the questions that follow.



(a) Name the organ shown in diagram X.

.....

(b) What is the function of the organ shown in diagram X?

.....

(c) Mark on the drawing Y the position of the organ shown in drawing X.

(d) Name another organ in a mammal that carries out a similar function as the organ shown in the drawing X.

47.(a) in the space below, draw an example of:

(i) A simple leaf

(ii) A compound leaf

(b) State any one use of a leaf to a plant other than photosynthesis.

(c) Apart from being eaten as food, name one other use of leaves to man.

48. Use the list of plants given below to answer the questions that follow

Beans, mosses, conifers, mushrooms

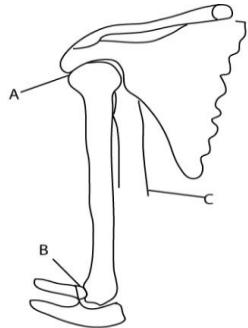
(a) Which two plants would you group together as members of one family

(b) Give a reason for your answer in (a) above

(c) Which one of the above plants reproduces by means of flowers?

(d) In what kind of environment would you find mosses?

49. The diagram below is of a part of a human arm, use it to answer the questions which follow



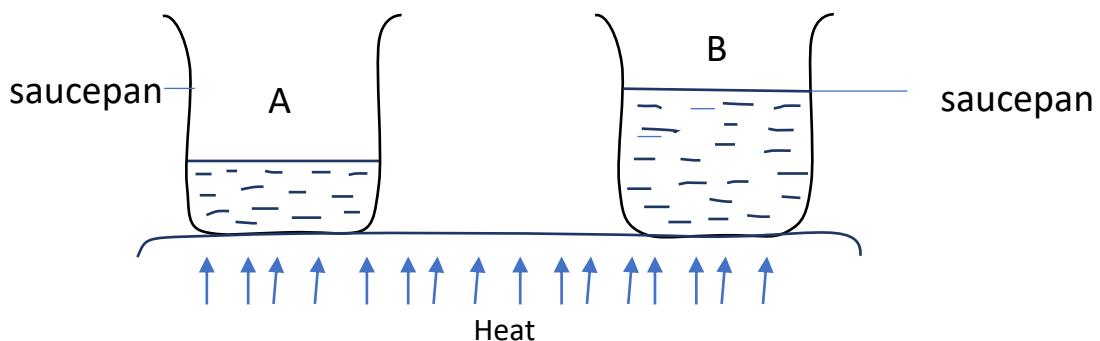
(a) Name the joint A

(b) What kind of movement does the joint A allow?

(c) Complete the drawing of muscles C to show where its lower end is attached.

(d) If the arm is in the position shown, name the muscle which must be contracted.

50. Two containers A and B containing some water as in the diagram below, were heated.



(a) In which container did water boil first?

(b) Explain your answer in (a) above.

51. Matata came back from school and found a piece of left-over boiled potato which was not covered. Because he was very hungry, he began to eat it at once.

- (a) State two good healthy practice which Matata did not follow.

- (b) Name a disease Matata could suffer from

- (c) Give a reason for your answer in (b) above?

52. A married couple has 10 children. The oldest is 15 years while the youngest is 3 months old.

- (a) State two problems this family is likely to face.

- (b) Mention one health problem the mother may face.

- (c) State one suitable advise you would give to this family.

53. (a) State one way in which you can distinguish between a poisonous snake and a non-poisonous one

- (b) Give an example of a poisonous snake.

- (c) What First Aid is given to a person bitten by a poisonous snake?

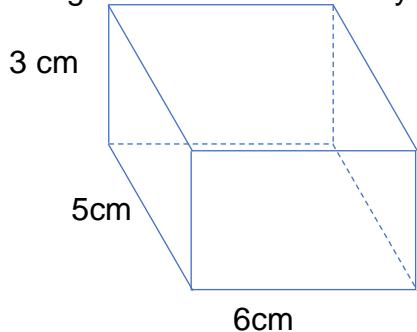
54. (a) How does heat travel through:

- (i) Water?

- (ii) Vacuum?

- (b) Explain how the sun heats the air around us.

55. The figure below is accurately drawn. What is its volume?



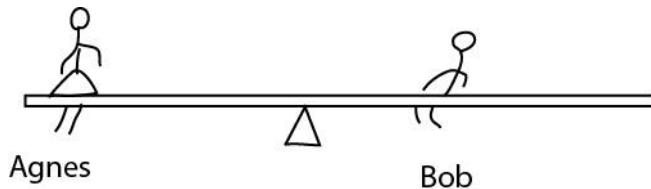
PRIMARY LEAVING EXAMINATIONS

Science 1994

1. How does uncontrolled burning affect our environment?
.....
2. State one method by which breast milk protects newly born baby.
.....
3. In the space provided below, draw a simple diagram of a molar tooth.
.....
4. State one way in which earthworms are important to a farmer.
.....
5. How does sun rays help in the formation of rains?
.....
6. What takes place in the lungs when one breathes in and out?
.....
7. Bbosa is suffering from a headache. The nurse wishes to measure Bbosa's body temperature. Why does she put the thermometer under Bbosa arm Pit and not his head?
.....
8. How does the government control the spread of cattle disease when it breaks out in an area?
.....
9. How does the skin of a person maintain its body temperature on a hot day?
.....
10. Why is it not necessary for a VIP latrine to have a lid for the hole?
.....
11. Why is it not good to pour paraffin into a pit latrine?
.....
12. A 14-year-old child who is usually well behaved suddenly becomes rude to the parents.
State one possible change in the child responsible for such a behavior.
.....
13. What is the advantage of family planning to a mother?
.....
14. Why would the control of AIDS be easier than that of malaria?
.....
15. Why does milk left in the open becomes sour after some time?
.....
16. A child is found to be dehydrated. What is the possible cause of dehydration.
.....
17. What causes anaemia?
.....
18. How does smoke from fire in a room reach other areas in the same room?
.....
19. A block of wood of volume 24cm^3 weigh 36grams. What is its density?
.....
20. A female fish lay eggs in water. How are these eggs fertilized?
.....
21. What type of change takes place when a candle wax melts?
.....
22. Pregnant women are advised to receive immunization against tetanus. What is the importance of this immunization to unborn baby?
.....
23. State any First Aid you would give to a person who is bleeding from a deep cut on the leg?
.....



24. Bob and Agnes are sitting, balanced, on a seesaw as shown in the diagram below.



How does the diagram show that Bob is heavier?

.....

25. Why does a heart of a person who is running beat faster than normal?

.....

26. State one advantage of crop rotation.

.....

27. What is the difference in the movement between a ball and socket joint and a hinge joint?

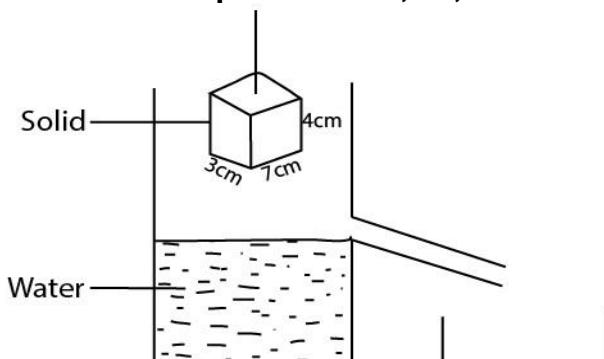
.....

28. Why should materials made of iron be covered with paint?

.....

29. Fish, reptile and birds are vertebrates that lay eggs. State one other characteristic which is common to them.

The diagram below shows an experiment used to find the volume of a regular solid block. Use it to answer questions 30, 31, and 32.



30. What is the volume of the block?

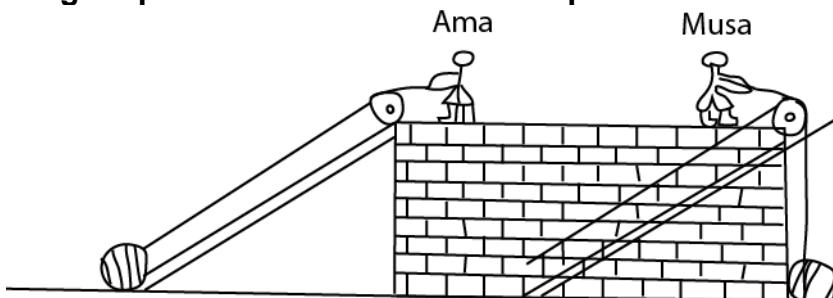
.....

31. If the solid block is lowered into the overflow can, what volume of water will be displaced?

.....

32. How would you confirm your answer in question 31 above?

The diagram below shows two boys. Musa and Juma pulling pieces of wood of equal weight up the wall. Use it to answer questions 33 and 34.



33. Which boy uses less force to pull wood?

34. Explain your answer to question 33 above.

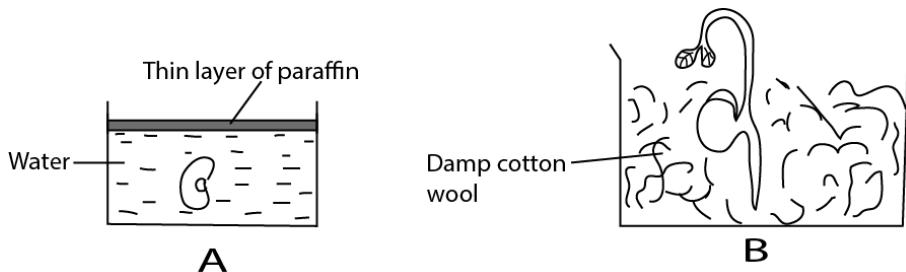
35. Why is resting important for the health of a person?

36. Bbosa is sitting on a chair inside a room. Both feet are bare. His left foot is resting on a bare cemented floor. The right foot is resting on a mat. Why would Bbosa's left foot feel colder than the right foot?

37. Why is smoking of tobacco harmful to the body?

38. What is the purpose of marriage?

Student was finding out the conditions for germination of beans to take place. She set up the experiment as shown in the diagram below. Use it to answer questions, 39 and 40

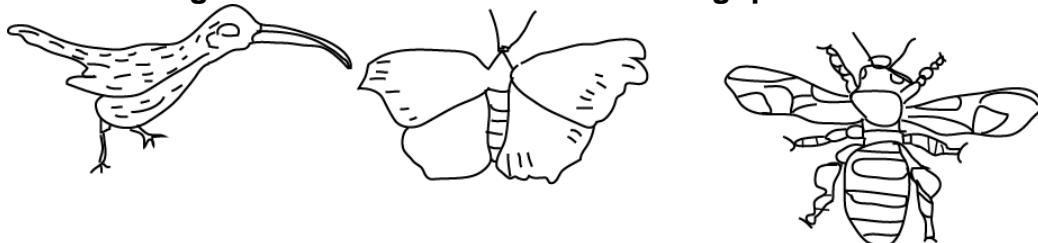


39. Why did the seed A not germinate?

40. What is the purpose of the wet cotton wool in B?

SECTION B

41. Use the diagram below to answer the following questions



(a) In which ways do these animals have similar forms

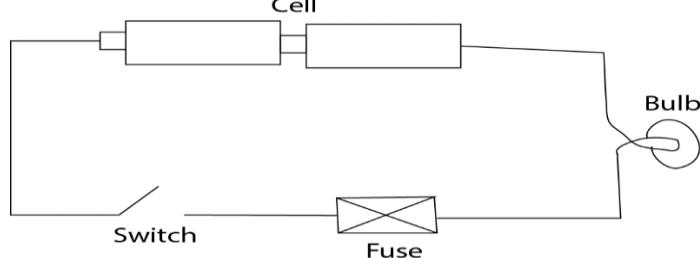
(i) Feeding.....

(ii) Pollination.....

(iii) Movement.....

(b) How does one of the animals differ from others in the life history?

42. In the diagram below, when the switch was closed, the bulb lit.



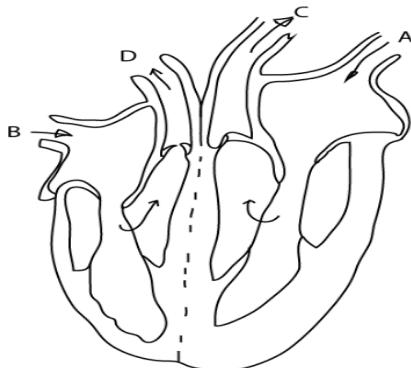
(a) How can you increase the brightness of light in the bulb?

(b) After a short time, the switch was still on, the light in the bulb went off. State three possible causes for the light going off.

43. (a) A farmer who practices mixed cropping has the following crops to plant: beans, cassava, ground nuts and potatoes.

- Which two crops would be advisable for the farmer to plant together.
- Give a reason for your answer in (i) above
- The farmer uses a garden for planting maize crop only for three consecutive years (planting season). During the harvest in the third year, he noticed a drop in maize yield. Suggest a reason why the yield dropped.
- How can the farmer improve his maize yield in the same garden without using fertilizers?

44. The diagram below is of a human heart. Use it to answer the questions which follow.



(a) What is the function of the valves in the heart?

(b) What is the difference between the blood which enters the heart through A and that through B?

(c) After leaving the heart at C and D where does the blood go?

C:.....

D:.....

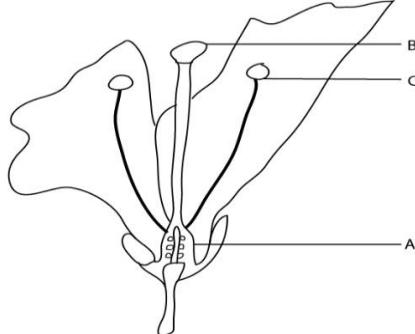
45. In the table below, some of the diseases are given below with their symptoms and prevention/controls. Study it and answer the missing information.

Name of disease	symptoms	Prevention/control
Sleeping sickness	Loss of body weight, drowsiness, swelling in the Joints
Common cold (flu)	Isolation, avoid infected people
Measles	Rash on the body, high fever, cough, red eyes, sore in mouth, diarrhea and vomiting
.....	Mild redness and itching of the eyes, pus in eyes after sleep, scarring	Washing of eyes, avoid sharing articles with sick person, e.g. basin, towel, medical treatment

46. (a) why should water not be used to put out fire from petrol which is burning?
-
.....

- (b) Suggest two ways by which fire from petrol burning can be put out.
-
.....

47. The diagram below is of a flower. Use it to answer the questions that follow.



- (a) What does the part labelled A become after fertilization?
-
.....

- (b) What is the function of the parts labelled B and C?
-
.....

- (c) Of what value are flowers to man?
-
.....

48. When a drum is hit, you hear sound.

- (a) How does the eardrum help you to hear sound?
-
.....

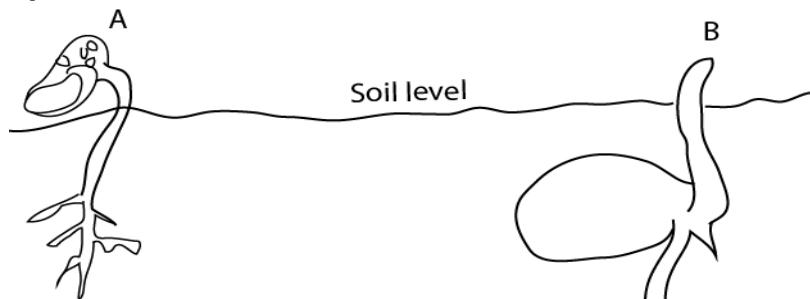
- (b) There is wax in the outer ear. What is the function of wax?
-
.....

- (c) What is the effect of too much wax in one's ear?
-
.....

49. (a) State two factors which should be taken into account when selecting site for building a house.
-
.....

- (c) How does a well-built house contribute to the health of a family?
-
.....

50. The diagram below shows how seeds change into young plants. Use it to answer the questions which follow.

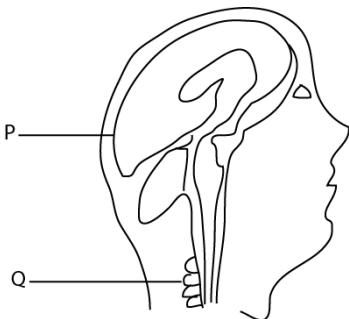


- (a) what is the main differences between the type of germination shown in A and that in B.
-
.....

- (b) Which of the two types of germination is common in monocotyledonous plants?
-
.....

- (c) In what way does the location of the food store in A differ from that of B?
-
.....

51. Use the diagram below to answer the question which follow.



(a) What name is given to the part labelled P

.....

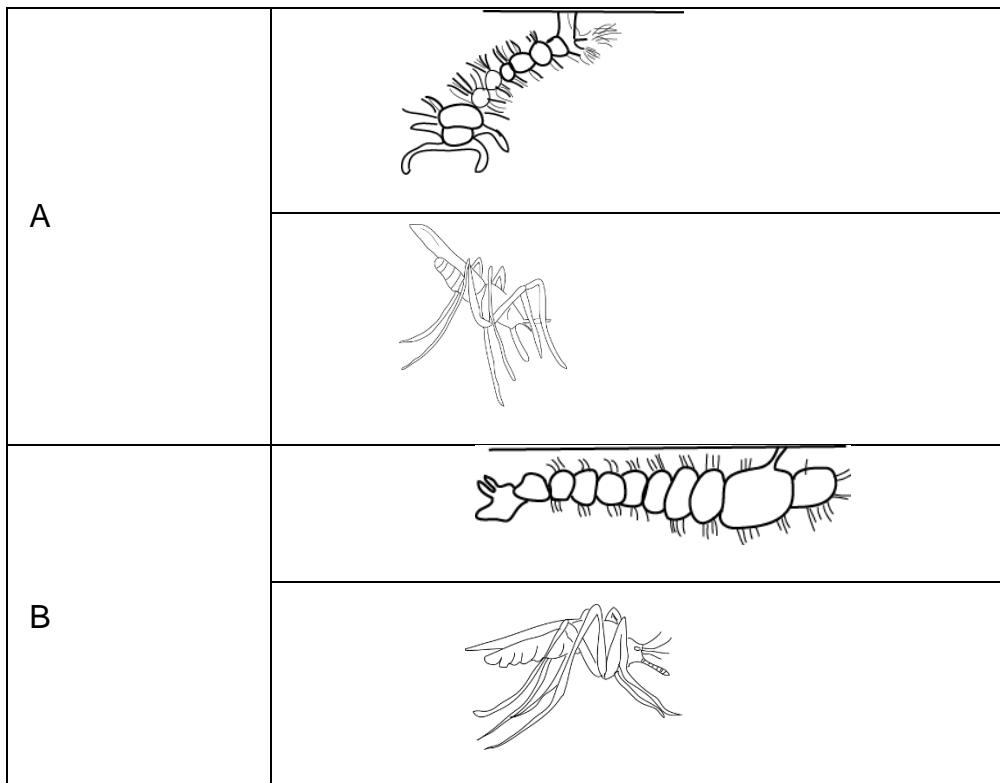
(b) Give the function of the part marked Q.

.....

(c) Name two sense organs shown in the diagram above, by which someone can tell that there is something burning?

.....

52. List A below gives two types of misquotes. The drawings in B give the larva and adult stage of mosquitoes. Write the correct number of the drawings in B against the correct mosquito in List A. Each drawing in B can be used once or more than once or not used at all.



Anopheles mosquito Culex mosquito

53. Nakato harvested her maize crop and dried it. She put the maize in a sack and stored it on the floor, in the corner of the bed room. Akello also harvested and dried her maize crop. Then she hung the maize cob above the fireplace in the kitchen.

(a) Explain why Akello would have better maize grains to plant next season.

.....

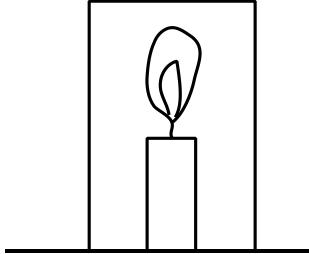
(b) Give two ways in which Nakato can improve on the storage method.

.....

54. (a) What shows that air is matter?

.....

(b) A candle is lit and placed inside a container and sealed as shown in the diagram below.



(i) Why does the candle continue burning for some time inside the sealed container?

.....

(ii) Give a reason why the candle light goes off after some time.

.....

55. State four reasons why physical exercise are good for the body.

.....

PRIMARY LEAVING EXAMINATION Science 1993

1. Jane put a bottle of soda in a bucket of ice. Two hours later, she found that the soda was frozen and the bottle broken. Why did the bottle break?

.....

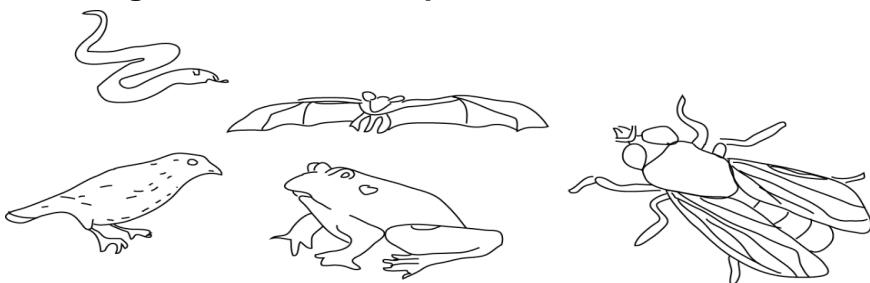
2. What is the role of brightly colored petals in pollination?

.....

3. State one reason why loam soil is better than sandy soil for crop growing.

.....

Use the drawing below to answer questions 4 to 8



4. Which animal lay eggs?

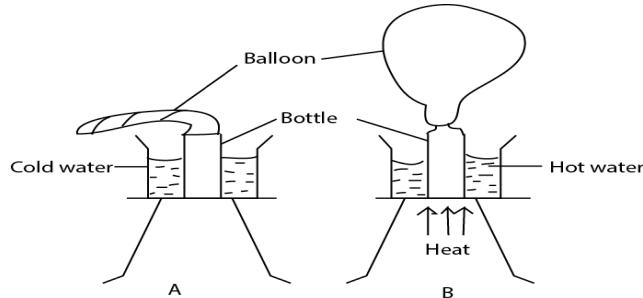
.....

5. Which of these animals are cold blooded?

.....

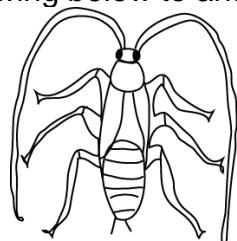
6. Which of these animals has no back bone?
7. Which of these animals can fly?
8. Which of these animals is a mammal?
9. Why would an egg from a layer not hatch into a chick after it has incubated for 21 days?
10. The chameleon is a slow-moving animal. State one way by which it protects itself.
11. Why is milk the best food for a baby less than one year old?
12. Why should left-over food be properly covered?
13. What causes malaria?

The diagram below shows a setup of an experiment and its results. Use it to answer questions 14 and 15



14. Why does a bulb swell out as shown in B?
15. Suggest what you think the experiment is intended to show?
16. Why are people encouraged to drink boiled water?
17. Why must fruits and vegetables be included in our diet?
18. Why does a pregnant mother need food rich in protein?
19. Why should finger nails be cut short?
20. Why is a maize grain considered a fruit?

Use the drawing below to answer questions 21 and 22



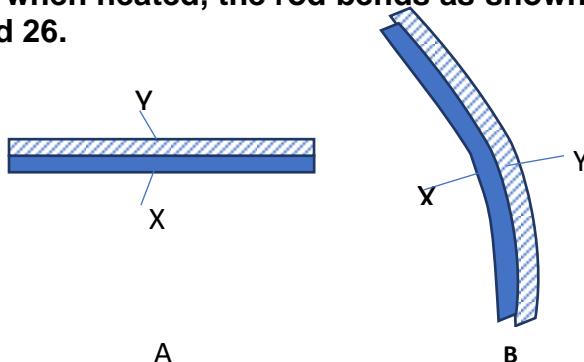
21. What stage in the life cycle of a cockroach is shown in the diagram?
22. Give a reason answer in question 21.

23. How does a cassava plant obtain its food when its leaves have fallen off?

.....

24. Why does a piece of stone placed into water sink?

The diagram below shows a metallic rod made of two different metal X and Y bound together as shown in A. when heated, the rod bends as shown in B. use the diagram to answer questions 25 and 26.



25. Which of the metal expands faster, X or Y?

.....

26. Give a reason for your answer in 25.

.....

27. What is the function of a dry cell?

.....

28. Why does a wet cloth spread on a line inside a house dry?

.....

29. What is a compound fracture?

.....

30. What First Aid should be given to a person with a compound fracture on the arm?

.....

31. Why must one avoid being near a person who is smoking?

.....

32. Of what use is a ventilator of a house?

.....

33. What do you understand by "drug dependence"

.....

34. What vector (animal) carries bubonic plague germs?

.....

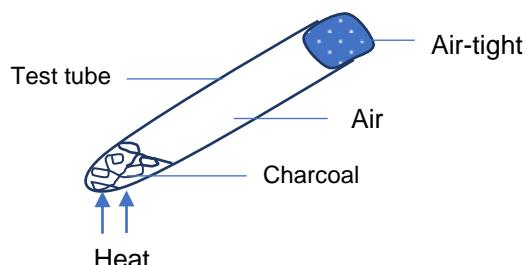
35. Why should a pit latrine be smocked from time to time?

.....

36. Bbosa shares his house with goats. State the disadvantage of this practice.

.....

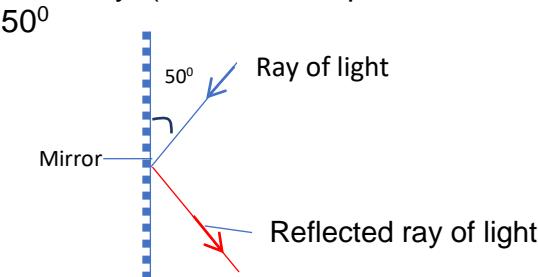
37. Some charcoal is burnt in a container as shown in the diagram below. The container and its contents were weighed before and after. There was no change in the weight. Why was there no change?



.....

38. State one cause of fainting.

39. A ray of light meets the surface of the mirror as shown in the diagram below. Draw a reflected ray. (Use of a compass not necessary)



40. What is the importance of weeding in growing crops?

SECTION B

41. The diagram below is of an Irish potato. Use it to answer questions (a) to (d)



(a) What part of the Irish potato is shown in the diagram?

(b) Give a reason for your answer in (a)

(c) What is the main food value does the Irish potato have?

(d) How does the method of propagation of Irish potato different from that of sweet potato?

42. The table below gives a list of diseases against which children should be immunized and the age in months in which the first dose of vaccine should be given?

Disease	Age in months
Tuberculosis
Tetanus	1 ½
.....	1 ½
.....	43.9

(b) why is the importance of health card?

43 (a) Give two possible source of worm infection

(b) state two signs of worm infection

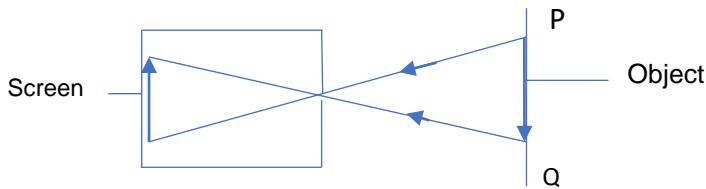
44. Uganda electricity Board generates most of its electricity at Jinja.

(a) State the source of electricity energy

(b). How does the electricity generated at Jinja get to a consumer in Kampala?

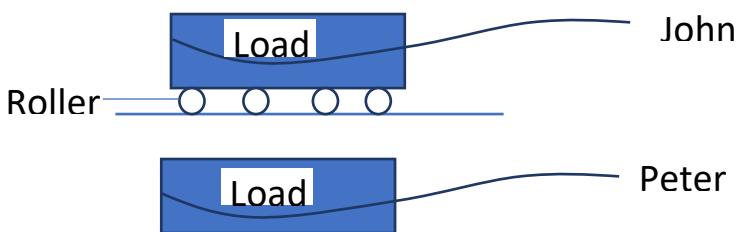
(c) Give two uses of electricity to a family?

45. Below is a drawing of a pin-hole camera with an image of an object formed on the screen. The object is located along line PQ.



- (a) Draw lines to show how the image is formed.
 - b) Draw the object
 - c) Compare the image and the object.
-
-

46. Bbosa pulls a load of 50kg over a set of metal rollers. Peter pulls another load of the same weight along the ground (see diagram below)



- (a) Explain why one of the two (people) uses less force.
 - b) What is the advantage of a driver pouring sand on a slippery road.
 - c) Explain your answer in (b) above?
-
47. The AIDS virus does not kill a victim.
- a) What leads to a person infected with AIDS virus to death?
 - b) Why should one not be afraid sitting in the same classroom with a person infected with the AIDS virus?
 - (c) What is the commonest method through which the AIDS virus is spread?
-

48. (a) How does each of the following helps to maintain soil fertility?

i) Crop rotation

ii) Mulching

(b) give two other ways of maintaining soil fertility.

49. A child suddenly removed the cover of a saucepan full of boiling water. One arm of the child was burnt with steam.

(a) What kind of burn did the child get?

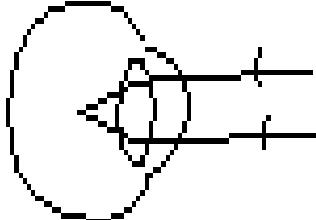
(b). What First AID would you give to the child?

c) Give the possible ways by which such accidents could be avoided?

50. (a) Give two types of cattle

(b) Why do cattle keepers encouraged to practice paddock system of grazing?

51. Below is a diagram showing an eye defect.



a) Name the eye defect shown in the diagram above.

b) Give reasons for your answer in (a) above

c) How can this eye defect for your answer in (a) above corrected?

52. (a) State two functions of mammalian teeth

(b) An elderly man has lost all his molar teeth. What feeding problems would be experiencing?

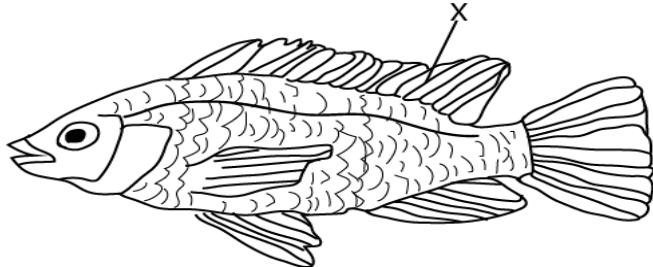
53. (a) Give two reasons why burning and rusting are considered similar reactions.

i)

ii)

(b) A farmer noticed that whenever he leaves his hoe outside the whole day, on a clear day, it does not rust; but whenever he leaves the same hoe at night, it rusts. Why is this the case?

54. The diagram below is of a fish. Study it and answer the questions that follow.



(a) Name the part labelled X

b) Mark with Y the position of the gills

(c) How does the fish take in oxygen?

55. (a) What is an essential drug

(b) Give an example of an essential drug.

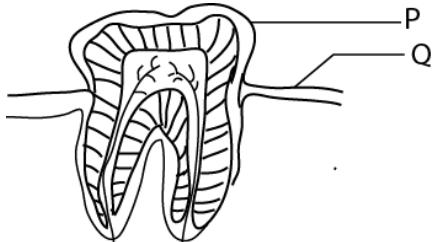
(c) Why are prescriptions important in the treatment of sickness?

PRIMARY LEAVING EXAMINATION

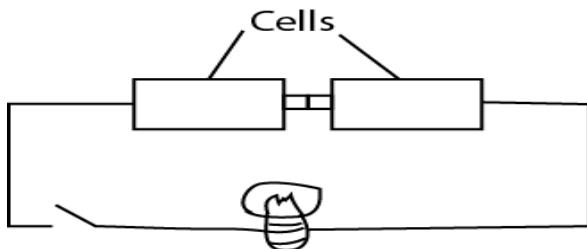
Science 1992

1. Name one source of vitamin B
.....
2. Besides carbon monoxide, name one other requirement for photosynthesis to take place in green plants.
.....
3. State one way in which bacteria can be useful to man.
.....
4. In which way is a housefly dangerous to man.
.....
5. How is AIDS transmitted from mother to unborn baby.
.....
6. Why is iron important element in our diet?
.....
7. How does a flying bee produce sound?
.....

The below is of a human tooth. Use it to answer questions 8 and 9.



8. Name part marked P
.....
9. What is the function of structure marked Q
.....
10. Bbosa usually brushes his teeth before eating a meal. Why is this not a good practice?
.....
11. Which blood cell is responsible for defense of the body?
.....
12. How is the chamber of the heart which pumps blood throughout the body adapted to its function?
.....
13. Give one possible result of a blocked egg-tube (oviduct) in a woman.
.....
14. What is extended family?
.....
15. Why do some people usually take alcohol?
.....
16. David connected the circuit as below. Explain why a new bulb did not light when he on a switch?
.....



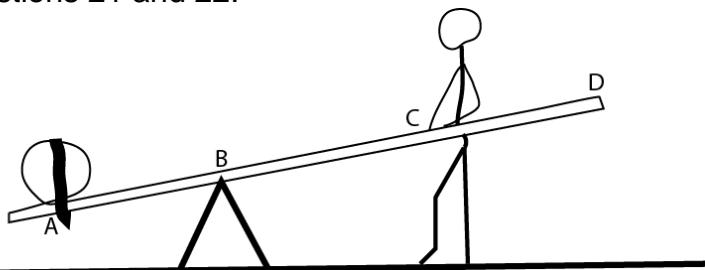
17. A boy bleeding from the nose is made to lie down or sit on a chair with his nose upwards. What should be done next to stop bleeding?
.....

18. What is the best natural conditions under which cereals like maize can be stored?

19. What is the main difference between a simple fracture and compound fracture?

20. Why is it important to start weaning a baby after the age of four months?

The diagram below shows a man using a pole for lifting a piece of stone. Use it to answer questions 21 and 22.



21. On the diagram, show the direction of the effort.

22. What should the man do to lift the load more easily?

23. How does terracing help to prevent soil erosion?

24. How does a tadpole differ from adult frog in the way it takes in oxygen?

25. What is pollution?

26. Name one activity that causes air pollution.

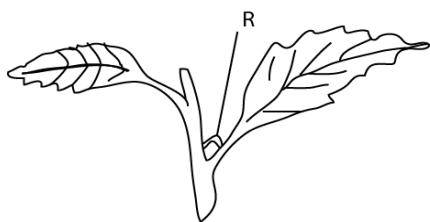
Question 27 and 28 are on a mushroom.

27. Of what importance is it to man

28. Why does it not obtain food in the same way as a green plant do?

29. How is nagana (sleeping sickness) spread?

30. The diagram below shows parts of a plant stem, name the structure marked R.



R.....

31. Name a disease which commonly attacks cassava plant in Uganda.

32. Why should drugs in a home be kept out of reach of children?

33. How is tuberculosis vaccine administered to children?

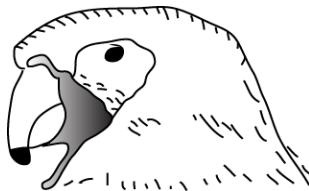
34. What do you understand by primary health care?

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

35. Where does fertilization take place in a flowering plant?

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

36. The diagram below shows the beak of a bird. Why do you think a bird with this kind of beak is a meat eater?



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

37. State one advantage of the ventilated improved pit latrine (VIP) over ordinary pit latrine.

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

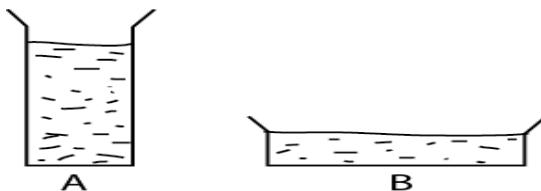
38. What is the recommended minimum distance between a drinking water and VIP latrine?

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

39. Why is a butterfly regarded as an invertebrate?

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

40. Equal volumes of hot water are poured into two glass container A and B as shown below.



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

Why would the water in container B cool faster than in container A?

SECTION B

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

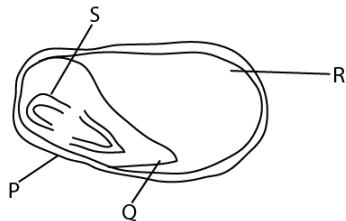
41. a) Why do some people smoke?

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

(b) What are the possible effect of smoking in a smoker?

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

42. the diagram below is a cross section of a maize grain. Study it and answer the questions that follow.



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

(a) Name the part marked P and R.

P:

R:

(b) What will S grow into?

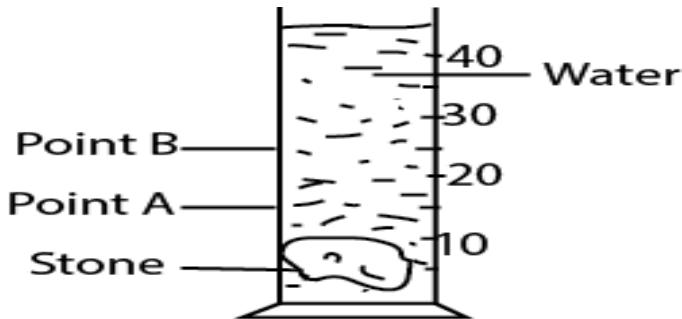
(c) What is the function of Q?

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

43. (a) Besides retaining soil moisture, what other purpose does mulching serve?

(b) Give one disadvantage of lack of crop rotation.

-
44. A piece of stone weighs 24g in air. The same stone was placed in a measuring cylinder containing water as shown in the diagram below. The level of water in the measuring cylinder rose from point A to point B.



(a) What is the volume of the stone?

.....
.....

(b) calculate the density of the stone.

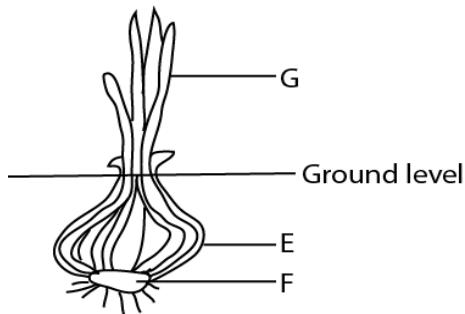
.....
.....

45. the diagram below is of a cross section of an onion. Use it to answer the questions that follow

(a) Name the parts marked E and F

E: F:

(b) What type of root system does it have?



(c) Give the function of the part labelled G?

.....

46. (a) Give the difference between hinge joint and Ball and socket joint.

.....

(b) Give the function of a tendon.

.....

(c) Name a disease connected with the muscle and skeleton system.

.....

47. Briefly explain the rain cycle.

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

48. (a) What is the use of a fuse in an electric circuit?

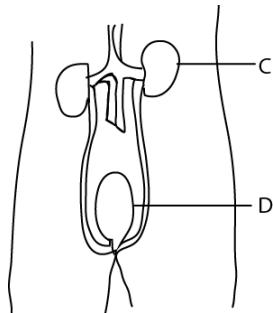
(b) How does a fuse work?

(c) Give two causes of short circuit.

49. (a) What do you understand by family planning?

(b) Give two disadvantages of becoming a parent at an early age.

50. The diagram below is one of the systems of human being



(a) Name parts labelled:

(i) A

(ii) B

(b) What is the function of structure C.

51. (a) Of what value is poultry keeping?

(b) What two symptoms would a chicken suffering from new castle show?

52. (a) Give two roles played by young farmers in Uganda

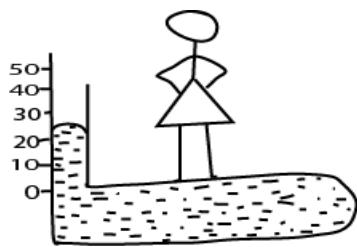
(b). What is a cooperative society?

(c) Give an advantage of a cooperative society.

53. The diagram below is of a weighing machine which uses liquid.

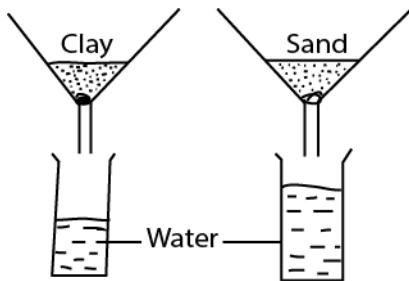
(a) What is the weight of the girl?

(b) Where will the level of the liquid be when the girl goes off the machine?



(c) Explain what happens if a teacher whose weight is 70kg stand on the machine?

54. Equal volume of sandy and clay soils were placed into containers as shown in the diagram below. Equal volumes of water were poured into each soil type at the same time. After 10 minutes the volume of water collected are as shown in the diagram.



- (a) through which soil did the water drain faster?
- (b) Give a reason for your answer.
- (c) Why do the two types of soil allow water to drain at different rates?

55. (a) State two causes of diarrhoea.
- (b) How can diarrhoea be prevented?

END