

ANSWERS FOR ISSUE 38
24TH JULY

1. Name the component of air used to preserve semen in cattle keeping.

2. In which way is a child health card useful to a school.

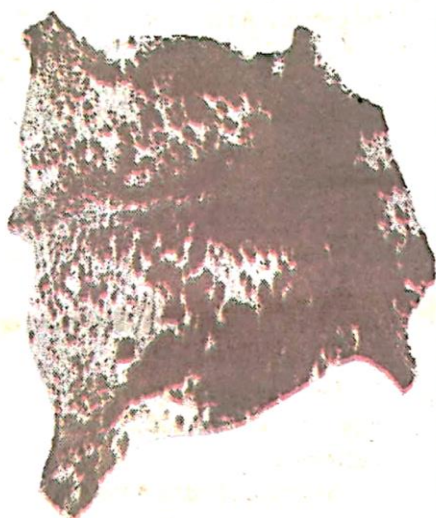
3. Name the part of a camera that works like the iris of the human eye.

4. Give any one component of agroforestry.

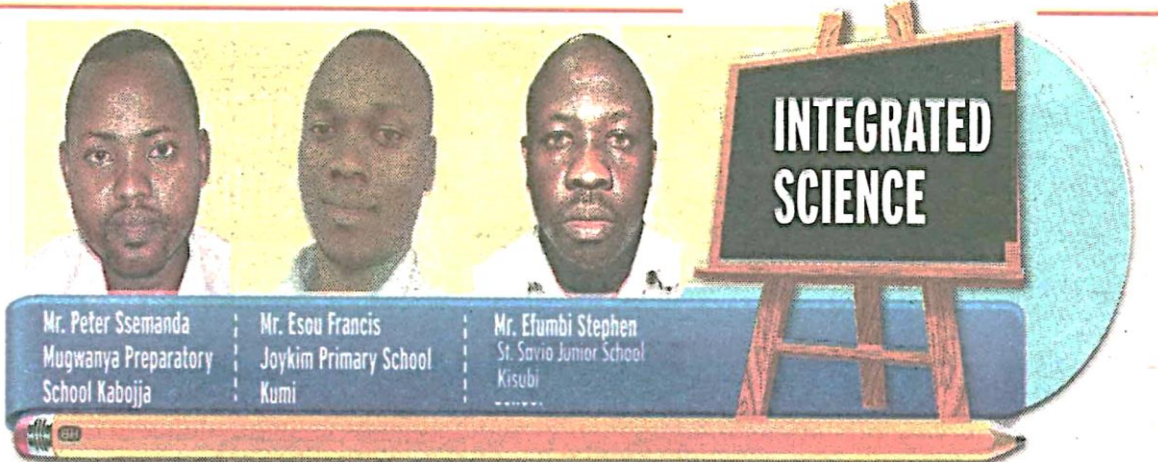
5. Mention one disease that affects the human stomach.

6. State one way of controlling mosaic virus in a cassava garden.

7. The diagram below shows one of the methods of preserving skins and hides.



Identify the above method of preserving skins and hides.



SECTION A

8. Name the industry that uses the above animal products as raw materials.

9. State the behavior of a cork when dropped in water.

10. Why do farmers cut off the leaves of a sucker before planting it?

11. State the units for measuring rainfall.

12. How are echoes of great significance to doctors?

13. In which way are the optic nerves similar to the auditory nerves of the human ear?

14. Name the state of matter with the weakest cohesion force.

15. Give any one sign of crops ready for harvesting.

16. State one way of restoring a mineral salt lost during bleeding.

17. Mention any one metabolic waste eliminated from the body by the skin.

18. Give one adaptation of a solar panel to its function.

19. The diagram below is of a medical instrument. Use it to answer questions that follow.



How is the above instrument useful to a school nurse

20. Identify any one part of the body through which the above instrument can be used.

SECTION B

21. a) What do we call the appearance of a pool of water on a high caused by refraction?

b) Mention one other place where the above effect of refraction can be formed apart from highways.

c) Mention any two transparent media that refract light

i) _____
ii) _____

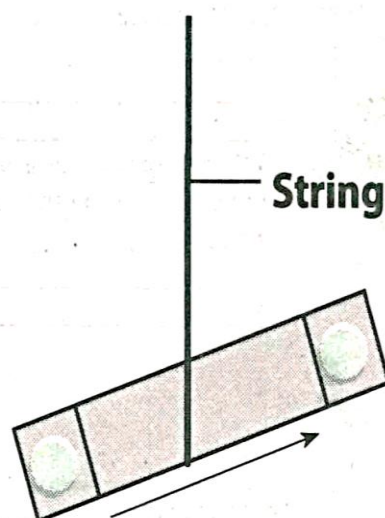
22 a) Identify the types of digestion caused by the action of each of the following.

i.) Teeth _____

ii) Enzymes _____
b) How do roughages help in preventing constipation?

c) Give a reason why vitamins and mineral salts are absorbed without being digested.

23 The diagram below shows one of the properties of a magnet. Use it to answer questions that follow.



a) Name the pole marked K.

b) Why does a magnet above behave as shown above?

c) Give two ways of preserving magnetism.

i) _____
ii) _____

24 a) Identify the groups of objects whose volume can be found by use of:

i) Metric method _____

ii) Displacement method _____

b) Give one factor that determines the sinking or floating of an object.

c) What does the term "upthrust" mean?

25 a) Why is it dangerous for a nose bleeding person to bend back the head?

b) State two possible causes of nose bleeding.

i) _____

ii) _____

c) Give one reason for administering first aid to casualties.

1. The embryo
 2. Diphtheria/ pertussis or whooping cough/ tetanus
 3. For fur production
 4. By washing them regularly with soap and clean water/ avoid looking directly to the sun/ going for medical eye check ups regularly/ feeding on foods rich in vitamin A
 5. It has ability to melt and break the circuit when too much current flows through it
 6. Child may fall down and gets broken
 7. The vulva swells and turns reddish/ mucus discharge from the vulva
 8. Through abstaining from sex/ by wearing a condom/ by being faithful to one lifelong sexual partner
 9. Air can be compressed
 10. Plants
 11. It can be easily opened while a Kigezi hive cannot be easily opened to see inside
 12. They have thick walls
 13. Gaseous form
 14. It provides energy that splits water into hydrogen and oxygen for photosynthesis to take place
 15. Inclined planes
 16. By increasing the length of the slope
 17. Plant wastes/ animal wastes/ dead plants/ dead animals/ human wastes
 18. It helps to cool the body/ it helps in balancing the amount of water and salts in the body
 19. Gastric juice
 20. Both balance the body
- SECTION B
21. a) Poor sanitation/ poor feeding/ poor water supply/ poor personal hygiene/ drug abuse
 - b) By washing our hands before eating/ washing hands after using a latrine/ feeding on a balanced diet/ drinking boiled water always/ doing physical exercise regularly/ having enough rest
 22. a) Exotic breeds produce more products yet local breeds produce less products/ exotic breeds bring more profits when sold yet local breeds bring less profits when sold/ exotic breeds grow and mature fast while local breeds grow and mature slowly
 - b) Aberdeen angus/ American Braham or beef master/ Hereford/ Charolais
 23. a) By use of seeds/ by use of suckers/ by use of sores/ by use of vines/ by use of bulbs/ by use of cuttings
 - b) i) By use of suckers
 - ii) By use of vines or cuttings
 24. a) The experiment shows that metals expand when heated
 - b) The ball had expanded due to heating
 - c) It should be cooled
 - d) Conduction
 25. a) These are diseases that spread from an infected person to another through having unprotected sex with an infected person
 - b) By abstaining from sex/ avoiding gifts from strangers for sex/ by staying at school/ avoiding lifts from strangers/ by resisting peer pressure on issue to deal with hav-

ANSWERS FOR ISSUE 40
31ST JULY)

1. Name one example of a liquid fuel commonly used at home.
2. Give one reason why we should wash our hand after eating food.
3. In which way are carrions useful in an abattoir?
4. When Clyne placed ice into cold water, it remained on the surface of water. State a reason for this behavior in ice.

The diagram below shows an instrument commonly used in a cattle farm. Use it to answer questions 5 and 6



5. Name the instrument shown in the diagram above.
6. How is the instrument above useful in a cattle farm?
7. Give any one reason why sand soil is more suitable for putting out fire than other types of soil.
8. Point out one way how a P.7 child may benefit other young farmers clubs if he



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INTEGRATED
SCIENCE

SECTION A

is a member.

9. Give one disadvantage of mulching to a crop farmer.
10. Write down any one method of harvesting honey combs in bee keeping.
11. Give one way how biological changes are similar to chemical changes.
12. Why do farmers crush and mix snail shells in their poultry feeds?
13. State one cause of juvenile delinquency in the community?
14. Mention any one way how houseflies spread germs.
15. How does photosynthesis benefit animals?

Study the diagram below of farm practice and use it to answer questions 16 and 17.



16. Name the method of caring for crops shown in the diagram above.
17. Why is not recommended to place the item Q very close to the base of the plant?
18. Why is the earth called a magnet?
19. Which part of the eclipse is formed by total obstruction of light from the sun?
20. Why is polio vaccine administered orally?

SECTION B

21. The diagram below shows a document given in the hospital. Study it carefully and use it to answer questions that follow

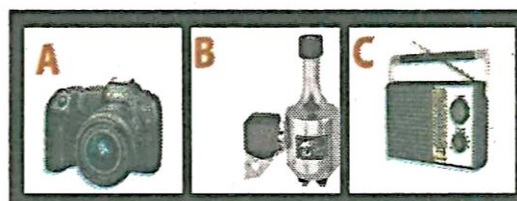
PATIENT INFORMATION	
Patient Name	Address
Phone Number	Email Address
HEALTH HISTORY	
Primary symptoms	Body temperature
	Body Weight
Recent Health History	Blood Pressure
	Activity Level
Preliminary Diagnosis	
Care Instructions	

- a) Name the document shown in the diagram above
- b) Mention any one importance of the above document to
 - i) The patient
 - ii) The doctor
- c) What would happen if the above document is not always given to patients in the hospitals.

22. a) In three sentences briefly explain how you can obtain an alcoholic drink using the distillation process

b) How is alcohol useful to medical persons in the hospital?

23. The diagrams below show some of the devices that use certain forms of energy to work. Study them carefully and answer questions that follow

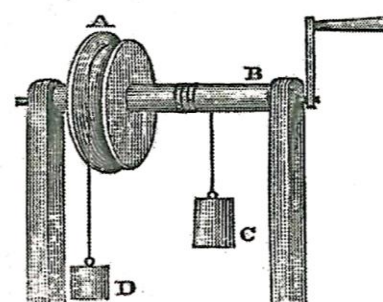


- a) Which form of energy enables device A to work?
- b) How is device B able to improve our livelihood?
- c) Mention one energy change that takes place in device C when it is working.
- d) State one characteristic of images

formed by device A.

24. In four sentences, describe how you can show that soil has water

25. The diagram below shows a common machine used in our communities. Use it to answer questions that follow



- a) Name that parts of the machine labelled with letters A and B
 - i) A
 - ii) B
- b) State one way the machine above simplifies work.
- c) How is the machine above useful to people in the community?

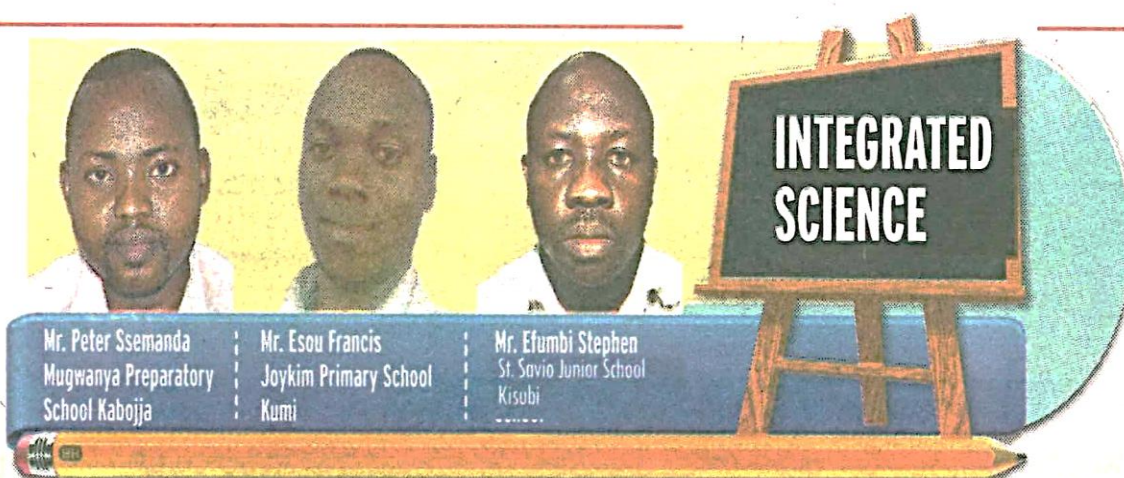
1. They balance the insect during flight
2. To enable the baby to get iron/ to enable the child to get enough food that can satisfy it
3. It leads to low crop yields/ it leads to soil exhaustion/ it leads to silting in water bodies
4. Mass is measured in grams while weight is measured in newtons
5. Polythene papers/ plastics/ rubber materials
6. By recycling them/ by returning them to the factories/ by reusing
7. It opens the digestive system of the calf/ it provides a balanced diet to the calf/ it improves the immunity of the calf
8. Barometer/ six's thermometer/ hygrometer
9. It does not reproduce/ it does not feed/ it does not grow/ it does not respire
10. They add oxygen into the atmosphere/ they trap dust and smoke that moves with air
11. It refracts light rays into one focal point
12. It is used in some optical instruments/ it is used to correct long sightedness
13. Irish potatoes are propagated using tubers while sweet potatoes are propagated using vines or cuttings
14. Intercoastal muscles contract and relax to cause movement of the ribcage
15. Blood stains in their droppings/ the wings drop/ the bird becomes dull/ the birds tend to crowd together/ the bird has ruffled feathers/ loss of appetite
16. Deposition
17. They break down food into soluble substances/ they speed up digestion of food
18. Alcohol
19. By shivering/ by developing goose pimples
20. By shedding their leaves

SECTION B

21. a) Milk set of teeth
- b) They are 20 teeth
- c) Premolars
- d) By brushing the teeth regularly/ by flossing the teeth/ by rinsing the mouth after a meal
22. a) It leads to death of animals/ it leads to spread of diseases/ it leads to global warming/ it leads to drought/ it leads to drying of water bodies/ it leads to pollution of water and air
- b) Afforestation/ reforestation/ agroforestry/ cleaning of water sources
- c) It is used for preservation of semen/ it used for combustion to provide heat
23. a) Bile pigment
- b) It balances the water and salt in the body/ it filters blood
- c) They are not filtered out from blood but they are formed from undigested food in the body
- d) By wearing a musk when in dusty or smoky places/ by breathing through the nose not the mouth/ by feeding on a balanced diet/ by doing physical exercises regularly
24. a) Roguing is the removal of plants with undesirable characteristics or diseased crops from the garden.

ANSWERS FOR ISSUE 41
4th AUG)

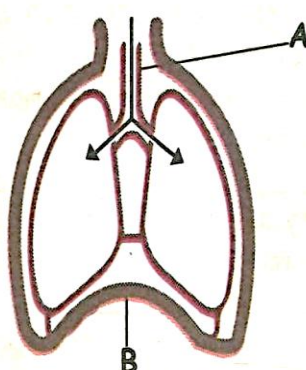
1. Name the human body organ affected by the disease spread by the black fly.
2. State one importance of the umbilical cord to a fetus.
3. Why is a water source located uphill the pit latrine location?
4. Name the disease which associated with dogs.
5. What is the role of ears in an elephant's perspiration?
6. State one effect of heat on matter.
7. What can happen when an object of density of 0.75gm/cc is placed into water?
8. Why is an owl, regarded a nocturnal bird?
9. How does raising a cooking place above the ground protect the family members from burns and scalds?
10. Name the part of the skeleton that protects the lungs and the heart.



SECTION A

11. Which organism is the decomposer in the food chain?

The diagram below shows the human lungs. Use it to answer question 12 and 13.



12. Name the parts labelled with letters A.
13. Why does part labelled B move downwards during breathing in?
14. Give one way of conserving wild animals in the environment.

15. Name the type of bee that makes a buzzing sound during flight.

The diagram below shows a good health style. Use it to answer questions 16.



16. State one advantage of the above practice to human health.
17. State one law of refraction of light.
18. How are valves important in the human heart?
19. In which way does the fly screen on a VIP latrine help to control cholera?
20. How are cotyledons important after germination of a bean?

1. Kerosene
2. To remove the bad smell/ to remove dirt (reject to remove germs or kill germs)
3. They help to clean the abattoir by eating carrion
4. Ice is less dense than water
5. Knap sack sprayer
6. For spraying acaricides on cattle
7. Its particles can easily be spread on fire to cut off oxygen supply to the fire
8. The child gets modern farming methods/ the child gets to know how to care for crops in the garden or how to care for animals in the farm
9. Mulch is a fire hazard in the garden/ mulch hide pests in the garden/ mulching is tiresome to the farmer/ fresh mulch can easily sprout into weeds in the garden
10. Traditional methods/ modern methods
11. Both are irreversible
12. To provide calcium in poultry feeds
13. Death of parents/ influence of drugs of dependency/ poor social environment/ poor family background/ poverty
14. By use of its hairy body/ by vomiting people's food
15. Animals get oxygen for respiration
16. Twining (reject clasping because when a plant clasps then it uses a special structure to gain support)
17. Q will destroy the roots of the plant M
18. It has magnetic poles
19. Umbra
20. The polio virus enters the babies' body through the alimentary canal
21. a) Medical form
b) i) It enables a patient to get quality medical care/ it enables a patient to be billed rightly/ it enables a patient to get the right medication/ it enables a patient to keep records his medical history
ii) It enables the doctor to make referral for better treatment/ it enables the doctor to know the medical history of the patient/ it enables the doctor to reduce errors in diagnosis and treatment administration/ it enables the doctor to communicate effectively to other medical personnel who are not within his reach
c) The patients would receive wrong prescriptions/ the patient would get difficulty being admitted in another facility after referral.
22. a) i) Ferment sugar or glucose from cereals or bananas or cassava to produce crude alcohol
ii) Get the crude ethanol and heat in air tight chamber and only tap out vapour using a copper tube
iii) Pass the delivery copper tube in cold water to condense the vapour and form distillate and collect it
b) It is used to sterilize medical instruments/ it is used to clean wounds
23. a) Light energy
b) It is used to produce electricity used for lighting
c) Electrical energy to sound energy
d) They are inverted/ they are diminished/ they are real
24. a) Collect a lump of dry soil
b) Place it in a dry saucepan or beaker and light fire
c) Place the saucepan with a lump of soil on fire and cover
iv) After some time, open the saucepan and check water droplets on the cover to show water condensed from the soil
25. a) i) Wheel ii) Axle
b) By increasing the speed of doing work

SECTION B

21. (a) State two types of injuries which can result from running carelessly.

- i) _____
 - ii) _____
- (b) Mention one item in the first aid box for offering first aid to fractured arms.

- (c) Why should blisters in burns or scalds not be burst or opened?

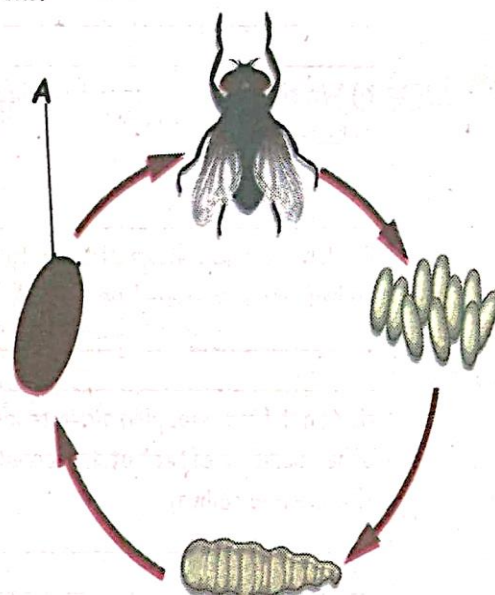
22. (a) How do fertilizers increase crop yields on a farm?

- (b) Mention the farm activity that enables a farmer to;

- (i) Break the life cycle of crop pests

- (ii) Control soil erosion in hilly areas

23. Use the diagram below and answer questions.



- (a) What type of lifecycle does the diagram show?

- (b) Name the stage shown by letter A.

- (c) Give one example of insect with such a cycle.

- (d) At what stage is the insect above a vector?

24. (a) Give two ways in which livestock can be used as energy resources.

- i) _____
 - ii) _____
- (b) Apart from animals, state one other energy resource which is renewable.

- (c) How are renewable resources different from recyclable resources?

25. (a) Give any two dangers of poor waste management to the environment.

- i) _____
- ii) _____

- (b) In two sentences describe the proper way of managing plastic waste.

- i) _____
- ii) _____

1. Name the vector that spreads yellow fever to people.

2. How is the eardrum useful during the process of hearing?

3. Mention the health practice a school pupil can do after using a toilet.

4. Give one sign of heart water disease in cattle.

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



Name the equipment shown on the diagram above.

6. What activity in bee keeping involves the use of the above equipment?

7. State the major cause of starvation among children.

8. Why should health care services in PHC be affordable?

9. Give one way early planting is advantageous to a maize farmer.



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INTEGRATED SCIENCE

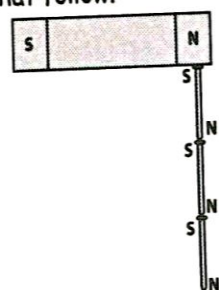
SECTION A

10. State one difference between a ligament and a tendon in terms of their functions.

11. Suggest one reason why people eat food.

12. Why does a fish die shortly after being removed from water?

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



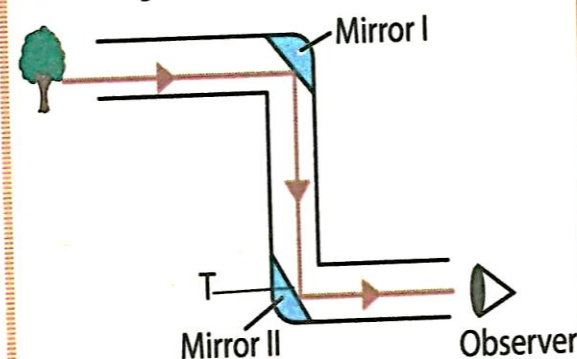
Identify the property of a magnet shown above.

14. Give one way of preventing warping of timber after harvesting.

15. Apart from a bat, give one other vertebrate that navigates by use of echoes.

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

17. The diagram below is a periscope.



Identify the type of mirrors marked T

18. Why are the above mirrors placed at an angle of 45°?

19. State the importance of a health survey to the government.

20. How does rearing fish in ponds help in controlling malaria?

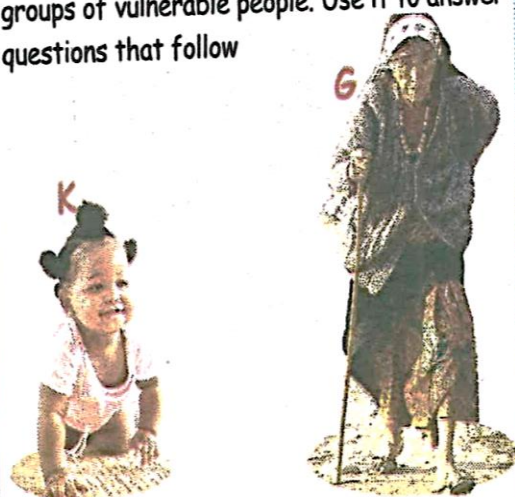
1. Skin.
2. Transport digested food to the embryo.
3. To prevent the contamination of water at the source.
4. Rabies.
5. Help to cool the elephant.
6. makes matter change state, makes matter to expand.
7. The object will float on water.
8. The owl is more active at night than day time.
9. Reduce easy access of family to hot objects.
10. The rib cage/ ribs.
11. Bacteria/ fungi.
12. Trachea.
13. To create space for the lungs to expand.
14. Strict laws against deforestation, controlled bush burning,
15. Drone bee.
16. Prevents germs from hiding in the nails.
17. The incident ray, the refracted ray and the normal at the point of incidence all lie in the same plane.
18. Prevent the backflow of blood, ensure that blood flows in one direction.
19. Traps and kills houseflies that spread cholera.
20. Stores food for the germinating embryo.

SECTION B.

21. (a) Fractures, sprains, strains, dislocation, bruises.
- (b) Arm sling, bandage.
- (c) To prevent the contamination of the wound.
22. (a) The add nutrients to the soil which improve on soil fertility.
- (b) (i) Break the life cycle of crop pests. Crop rotation.
- (ii) Terracing, contour ploughing.
- 23.
- (a) Complete life cycle.
- (b) pupa.
- (c) Housefly, bees.
- (d) Adult stage.
24. (a) Can be used for transport, used for ploughing.
- (b) Air, Water, plants.
- (c) Renewable energy resources can be replaced easily incase they are exhausted while recyclable resources can be replaced once used.
25. (a) Can lead to break out of some diseases, breakout of some disease vectors, lead to pollution.
- (b) Selectively sort the plastic waste.
- Burn or return them for recycling.

SECTION B

21. The diagram below shows different groups of vulnerable people. Use it to answer questions that follow



a) Name the group of vulnerable people marked G

b) Why are the vulnerable group of people marked K at a risk of getting diarrhoea diseases at a crawling stage

c) Outline any two conditions under which women can be vulnerable.

- i)
- ii)

22. a) What term refers to health problems that affect people and need immediate solutions?

b) Give two examples of such health problems in community

- i)
- ii)

c) Identify any one way of addressing such health problems in a community.

23 a) Name the component of soil plants use to make food.

b) Apart from weathering, give one other way soil is formed.

c) State one role played by earthworms during soil formation.

d) Give any cause of soil erosion.

24 a) How do we call the finger like projections found in the ileum?

b) Name the digestive enzyme in saliva.

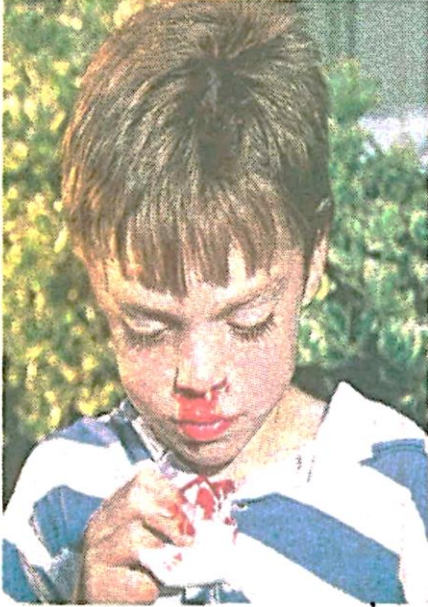
c) Mention the two types of digestion.

- i)
- ii)

25 You are provided with the following materials. 2 tins, a string and a nail.

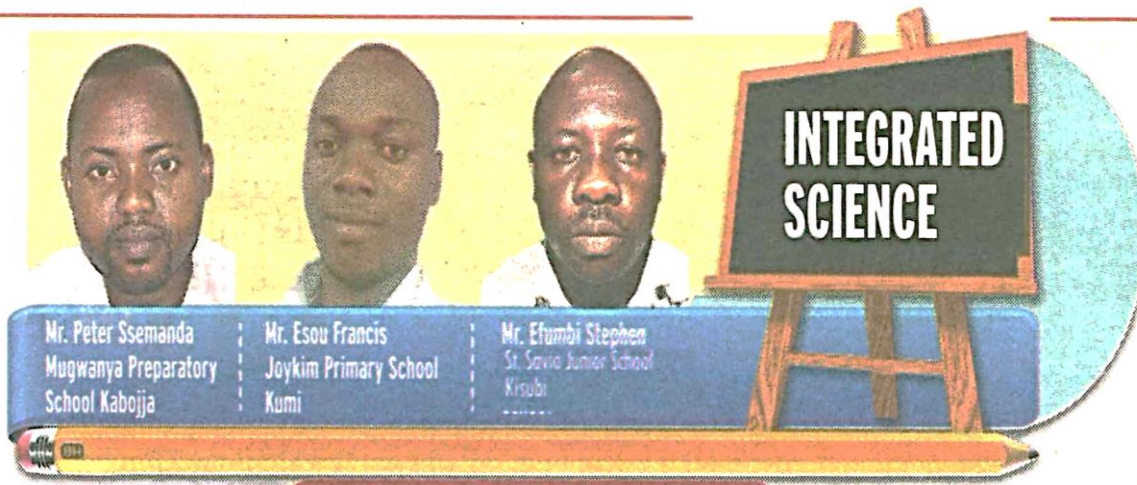
Describe an experiment to show that sound travels through solids.

1. Mention any one childhood immunisable disease that spreads through contaminated air.
2. Give a reason why car tyres wear off quickly on a tarmac road than on a murram road.
3. The diagram below shows one of the forms of common accidents.



Identify the type of accident shown above.

4. Give a reason why you would encourage a victim of such accidents to breathe through the mouth when first aid is being administered.
5. Name the form of static electricity in nature.



SECTION A

6. Why should a person who has taken paraffin be given plenty of fluids as first aid?
7. In which way are amphibians similar to fish?
8. Name the state of matter obtained when water is frozen.
9. How does the use of soap make Washing of clothes easy?
10. Why are most electric cables not made up of silver yet silver is the best conductor of heat?
11. How do single movable pulleys work?
12. Give one way a parent can be able to know the immunisation schedule of his or her children besides using a child health card.
13. Which intestinal worms enter the body through penetration?
14. How do secondary consumers get energy from producers?
15. Give the meaning of the term earthing up in crop management.
16. Why is there less carbon dioxide inspired than expired?
17. State one way of controlling cockroaches in a store.
18. Give one structural difference between a drone bee and a worker bee.
19. What name is given to meat from goats?
20. Write down one way in which convection is important in our daily life.

ANSWERS FOR ISSUE 46 21ST AUG)

1. Mastitis
2. Rfleas spread bubonic plague to people
3. To prevent self pollination
4. Chemical changes form new permanent substances
5. Scorpion
6. Distilled water can be used for mixing drugs
7. The sun provides heat which enables a laundry cleaner to dry clothes
8. The moon doesn't emit it's own light but reflects it from the sun
9. Causes swelling around the throat
10. Halteres
11. For scrubbing the heels
12. Difficulty in breathing/ sneezing
13. Distillate
14. To avoid planting seeds that are not viable
15. Canine teeth are sharp and pointed
16. Physical exercise help to improve on blood circulation/ They help to keep body organs in a good working condition
17. Reflected ray
18. Blue
19. Jik kills maggots that reduce volumes of faeces in a latrine
20. Fingers/ head/armpits
- 21.a) Polio vaccine
- Measles vaccine
b) By keeping in cool dry places like cold chain boxes/ thermos flask
c) To enable poor people to get vaccinated
- 22.a). Galvanizing is the act of coating metals using zinc
b) To prevent metals from rusting
c) Iron sheets/metal bars
- 23a). Epiderms/ dermis
b) A- To produce sweat
C- To let out sweat from the body
- 24a) Yeast increase the size of the dough
b) Yeast can be used for making alcohol
c) Some fungi are poisonous when eaten
- Some fungi cause diseases to people
- Fungi make food go bad
- 25a) Calcium
b) Crushed snail shells
- Crushed egg York
- Crushed oyster shells
c) For them to be able to know whether they are making profits or losses.

SECTION B

21.a) Name the process by which biogas is produced.

b) Why is the use of biogas said to be neat and clean?

c) Apart from biogas ,name any other two examples of biofuels.

- i)
- ii)

22 a) Name two principles of PHC.

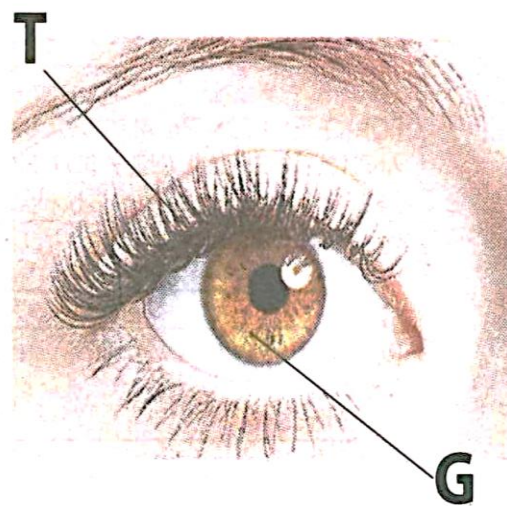
- i)
- ii)

b) Write down the elements of PHC promoted by the following activities

i) Use of contraceptive pills

ii) Bathing regularly

23 The diagram below shows the human eye , study it carefully and use it to answer questions that follow.



a) Name the part marked T .

b) Give the function of part G.

c) State the Principle of light which the human eye works.

d) Mention any one characteristic of images formed in the eye.

24 a) Name the body system responsible for removing metabolic waste from the body.

b) Identify the excretory product that contains Uric acid.

c) Why is faeces not regarded as an excretory product?

d) How is melain an important pigment in the human skin?

25 a) How does a whistle produce sound?

b) State one way of changing the pitch of sound produced by a whistle.

c) State two ways of storing sound mechanically.

- i)
- ii)

1. Name any one scale used to measure temperature.

2. Give any one reason it is dangerous to use sharp objects to clean the ear.

3. Mention one importance of a sickle to a crop farmer.

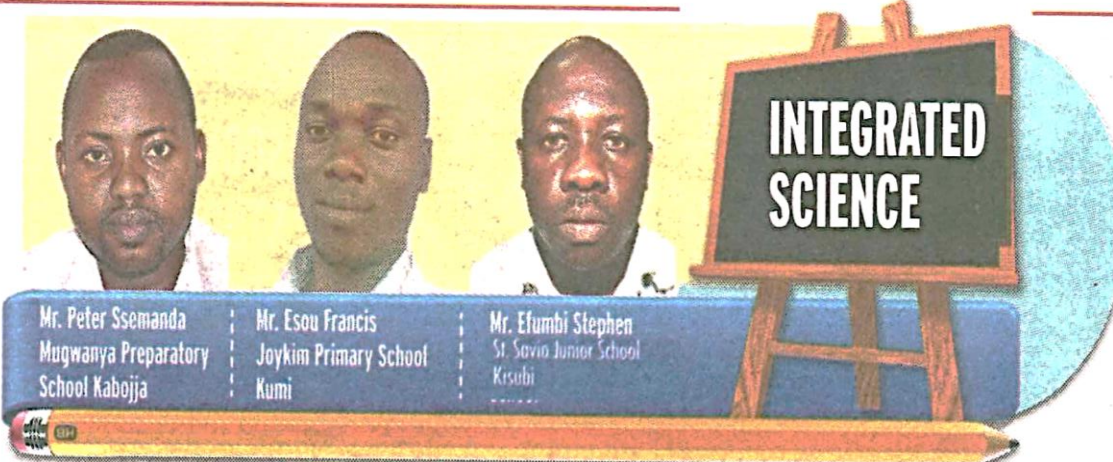
5. State one way in which crop rotation helps to improve soil fertility in the garden.

The diagram below shows a type of tooth in humans. Use it to answer question 6 and 7.



6. Name the type of tooth in the diagram above.

7. How is the above tooth adapted to its function?



SECTION A

4. Name the vector that spreads diarrhoea to people.

8. Give one way of controlling foot rot in cattle.

9. State the group of arthropods to which scorpions belong.

10. Mention one advantage of using artificial fertilizers in the garden.

11. State the reason why opaque materials form shadows.

12. Give one way in which the reason of keeping saanen goats is similar to Friesians.

13. Mention any one way in which plants are harmful to people.

14. Why do lungs have moist thin surface?

15. Give advantage of food taboo in the society.

16. Apart from flying, give another way feathers are useful to birds.

17. Name the instrument shown below.



18. How is it useful in first aid management?

19. Mention any one human activity that can be done to control soil erosion in the school compound.

20. Name the bacterial disease that affects the ear.

ANSWERS FOR ISSUE 48 4TH SEPT

- Carbohydrates
- Helps the mother to wash plates/ helps in adding fuel into the cooking stove/ cleaning the cooking place
- It has weight / it occupies space
- It turns food to mix it with salivary amylase/ it cools food to enable enzymes to work on it
- Whale/ dolphin/ seal/ porpoise
- Heat is used to melt tar used when tarmacking the road
- A brooder can be used to care for many chicks yet natural brooding raises few chicks/ using a brooder protects the chicks against bad weather while natural brooding, chicks are at risks of being killed by bad weather
- Organising health parades/ checking the personal hygiene of the children/ supervising the cleaning activities/ making cleaning rota
- Plants/ animals/ birds
- Increase in voltage enables magnetic field to increase in an electro-magnet
- Light can be refracted
- It make fishermen to drown in water/ it makes fishermen to target wrongly when catching fish in water bodies.
- It leads to easy spread of diarrhoeal diseases/ it leads to poor disposal of human wastes around the market surrounding
- It makes water bodies shallow/ silts reduce the speed of flowing water
- For easy identification of animals in the farm
- To prevent underweight birth/ to prevent producing a malnourished child / to make her produce more milk after birth/ to prevent birth complications
- The law of magnetism states that " like poles of magnets repel while unlike poles of magnets attract each other"
- Electricity is clean to use while wood fuel is dirty/ electricity is fast in doing work while wood fuel is slow
- They store their food in underground swollen roots and are the ones we harvest as food
- It helps to fix nitrogen into the soil
- a) Bulbs
- i) W store food for the plant
- ii) Y absorb water and mineral salts for the onion plant
- C) By use of seeds/ by use of the bulb
- a) Bathing every day/ brushing teeth after every meal/ trimming hair regularly/ washing and ironing clothes before wearing/ washing hands after using a latrine
- b) It leads to diarrhoeal diseases/ it leads to the spread of some eye diseases/ it leads to a bad smell on the body/ a person may get ecto parasites on the body
- a) It is light to be carried by wind/ it has a parachute shape that enables it to fly in air.
- b) Jacaranda seeds/ acacia seeds/ cotton seeds/ tridax
- c) It enables plants to colonize other places/ it prevents over crowding of plants in an area/ it helps to prevent extinction of plants in an area

SECTION B

21.a) Mention two methods of milking cows.

i) _____

ii) _____

b) Give any two practices a cattle farmer can do before milking.

i) _____

ii) _____

22. a) Give any two in which yeast is useful to people.

i) _____

ii) _____

b) State any two ways fungi are harmful to people.

i) _____

ii) _____

23. a) Fill in the missing information in the table below.

vector	Characteristic	Disease
Cockroaches	_____	Polio
_____	Hairy body	Trachoma.
Tsetse fly	proboscis	_____
_____	Sharp canines	Rabies.

24. a) Mention any two dangers of poor management of plastics in the environment.

i) _____

ii) _____

b) State any two ways of managing polythene in the environment.

i) _____

ii) _____

25. a) Name the disease caused by hook worms in humans.

b) Give any two signs of worm infestation in humans.

i) _____

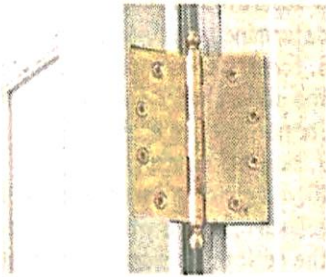
ii) _____

c) State one way in which proper waste disposal waste disposal helps to control worm infestation in humans.

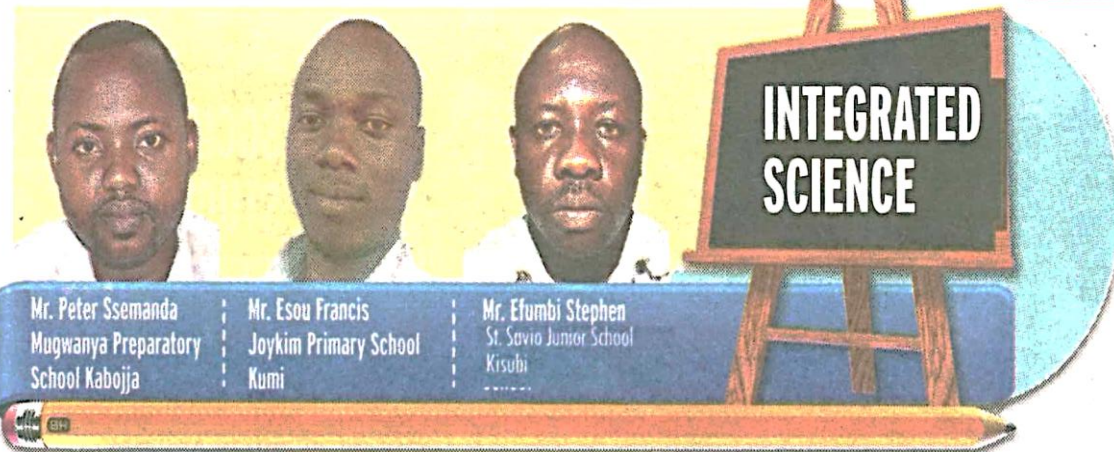
ANSWERS FOR ISSUE 49
8TH SEPT)

1. Name one animal that protects itself by producing a bad smell.
2. Mention any one reason why fruit juice is included in our diet.
3. In which one way does paddock grazing help to control the spread of cattle diseases in the farm?
4. Why do ice cubes float on water after forming from water?

The diagram below shows hinges on a door. Use it to answer question 5 and 6



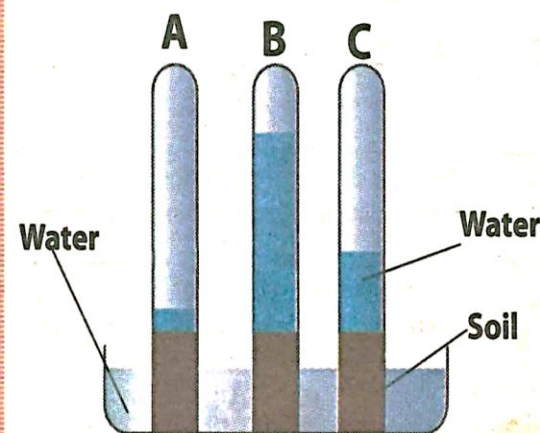
5. Name the part of the human body that has similar functions as the hinges on the door above.
6. Mention any one way the above part of the door can be made efficient.
7. Give one way wood seasoning helps to preserve timber.
8. Mention any one way a mother can prevent spoilage of food without using heat energy.



SECTION A

9. You have met your friend bleeding through the nose. State one step you would follow to give first aid for such a happening.
10. In one sentence, define the term a balanced diet.
11. Why is a tap root regarded as a true root?
12. Mention any one example of a vulnerable group of people in your community.
13. Name any one device that converts electrical energy to sound energy.
14. Mention any one reason why farmers prefer vegetative propagation over seed propagation.
15. Give any one example of a fruit vegetable.
16. State one difference between a single fixed pulley and single movable pulley.
17. How does walking short distances help to conserve fossil fuels in the environment?

The diagram below shows an experiment performed by P5 pupils on different samples of soil. Use it to answer questions 18 and 19



18. What does the experiment show about different types of soil as seen above.
19. Give a reason why soil sample marked C is the most suitable for crop growing.
20. Mention one way fermentation is important apart from being used during production of alcohol.

1. Celsius scale, Fahrenheit scale.
2. Sharp objects can damage the ear drum.
3. Used to harvest rice, millet.
4. Housefly.
5. Legumes in the rotation fix nitrogen in the soil which improve soil fertility.
6. Molar tooth.
7. Has a broad ridged surface for grinding food.
8. Hoof trimming, keeping cattle in a dry place, treat the animals with antibiotics.
9. Arachnids.
10. Damage the soil structure, make the soil acidic.
11. They do not allow light to pass through them.
12. Both are kept for milk production.
13. Some plants are poisonous when eaten, some plants have thorns that pierce people's skins.
14. To increase the surface area for gaseous exchange.
15. Help to preserve some plants and animal species.
16. Keep the birds warm, protect the birds from external damage.
17. Safety pin.
18. To fix bandages, to attach bandages.
19. Planting trees, planting short grass, tarmacking the compound.
20. Otitis.

SECTION B

21. i) Hand milking.
ii) Machine milking.
- b) i) Washing hands, tying the legs of the cow.
ii) Giving the cow food, washing the udder.

22. a) i) Used to make alcohol
ii) Used for baking.
b) i) Lead to rotting of food, some are poisonous when eaten.
ii) Cause diseases to people.

24. a) i) Plastics can block water and air to enter the soil.
ii) Lead to air pollution when burnt.
b) i) By recycling them.
ii) By reusing them.

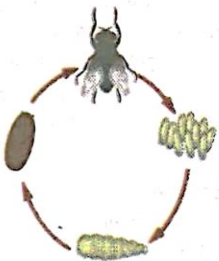
23. a) Fill in the missing information in the table below.

vector	Characteristic	Disease
Cockroaches	Mandibles	Polio
Housefly	Hairy body	Trachoma
Tsetse fly	proboscis	Sleeping sickness
Dog	Sharp canines	Rabies

25. a) Hookworm anaemia.
b) i) diarrhoea, abdominal pain
ii) worm segments in the faeces.
c) Reduce the spread of worms to people.

SECTION B

21. The diagram below shows a lifecycle of an insect. Use it to answer questions that follow.



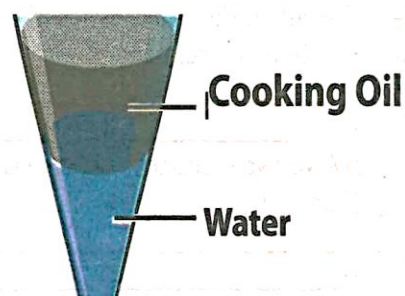
- a) Name the insect whose lifecycle is shown in the diagram above.
- b) Which type of metamorphosis is shown in the diagram above.
- c) Give a reason for your answer in b) above.
- d) Name any one insect that under goes the above type of lifecycle.

22. a) Name any two materials bees collect from flowers during their visit.
- b) Mention any one way honey combs are

useful to people.

- c) State any one advantage of using a smoker when harvesting honey combs.

23. Gabriel mixed water and cooking oil by accident in one bottle. After some time, oil and water formed two distinct layers as seen in the diagram below.



- a) Give the main reason why oil and water failed to mix completely as shown in the diagram above.
- b) Mention one reason why water and oil form different layers as shown in the diagram above.

- c) Why did oil settle on top of water as seen in the diagram above?

- d) Mention the best method used for separating such mixture.

24. a) Name any two gas fuels commonly used at home.

- i) _____
- ii) _____

- b) Give two ways of conserving gas fuels in the environment.

- i) _____
- ii) _____

25. a) Mention any two ways of managing wastes in our environment.

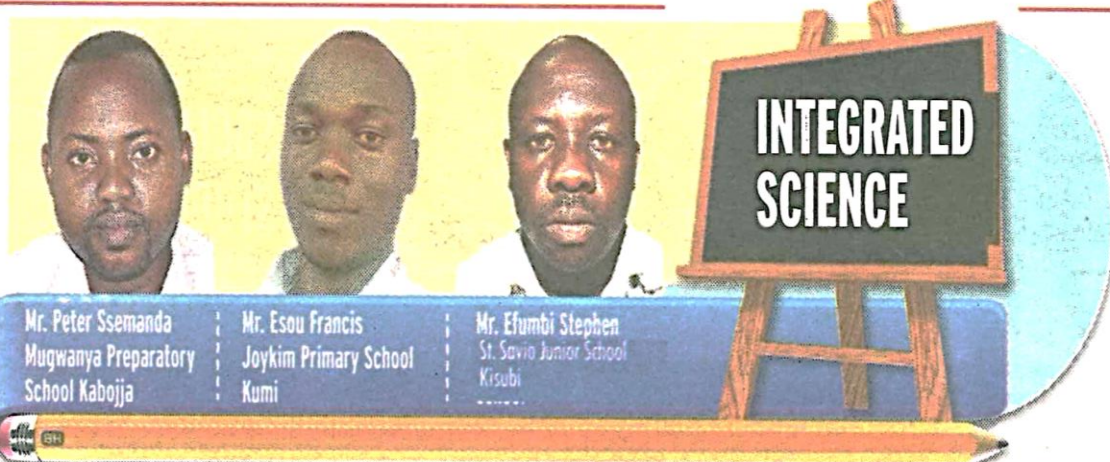
- i) _____
- ii) _____

- b) State two dangers of wastes in the environment.

- i) _____
- ii) _____

ANSWERS FOR ISSUE 50
11TH SEPT)

1. State the reason why salt dissolves when put in water.
2. Give any way any one danger of frequent births to women.
3. Mention one way in which soil formed.
4. Where in the body does exchange of materials take place?
5. State the type of change that takes place when wood burns to ash.
6. Give one product of poultry required by people in a bakery.
7. State one danger of giving weaning babies food that is not mashed.
8. Mention any one way in which you can protect tall building against danger due lightning.
9. State the reason why pigs are given feeds rich in proteins before giving birth.
10. Mention any one practice that can help to prevent cannibalism in poultry.



SECTION A

11. Give any one reason why household wastes should be sorted before disposal.
12. Name one method of harvesting the root tuber below.



13. State a reason why earthing up is useful to the above crop.

14. State one sign and symptom of dysentery in humans.
15. Identify the part of a flower in which female gametes are produced.
16. Give one factor that affects the speed of sound produced.
17. State one way in which is too much alcohol can lead to death.
18. Give the importance of a smoker during harvesting honey.
19. Name the system that distribute digested food in the human body.
20. Give any one use of water as an energy resource.

1. Skunk
2. To provide us with vitamins
3. It starves ticks to death hence preventing the spread of tick borne diseases in cattle
4. They are less dense than water
5. A joint
6. By oiling it/ by greasing it
7. It prevents warping of wood/ it prevents cracking of wood
8. By refrigerating it/ by salting it/ by sterilizing it
9. I tell him or her to pinch the soft part of the nose and bend the head between his less for some time
10. This is a diet that contains all food values in their right amounts
11. It develops directly from the cotyledon of a seed
12. Babies/ the sick/ the elderly/ the pregnant mothers
13. Microphone/ loud speakers/ radios/ electric bells
14. Plants grow faster in b vegetative propagation yet in seed propagation, the plants grow slowly/ in vegetative propagation, plants maintain the required characteristics yet in seed propagation it is difficult to maintain the characteristics
15. Tomatoes/ eggplants/ pepper/ cucumber
16. Single fixed pulley has mechanical advantage one while single movable pulley has mechanical advantage two/ single fixed pulley changes direction of the force while single movable pulley does not change direction of force
17. It prevents excessive use of fuel by cars and motorcycles
18. It shows capillarity in different types of soil
19. It is fertile/ it has moderate capillarity and drainage of water
20. It helps in the process of making yoghurt/ it helps in the processing local foods
21. a) Housefly/ butterfly/ mosquitoes/ bees/ wasps
b) Complete metamorphosis
c) Its larva stage has totally different characteristics from the adult stage
d) Housefly/ butterfly/ mosquito/ bees
22. a) Pollen/ nectar/ propolis
b) They can be used as animal feeds/ they can be used as baits in empty beehives
c) It prevents burning of a beehive when directing smoke into the hive or death of bees
23. a) They are not dissolve in each other
b) They have different densities
c) Oil is less dense than water
d) By use of a separating funnel
24. a) Bio gas/ propane gas/ butane gas
b) Putting it off when not in use/ by using other fuels than gas/ by using it sparingly/ by restricting the mining of gas products
25. a) By recycling them/ by reducing the use of such materials/ by returning them to the factories
b) They pollute the soil or environment/ they attract vectors and pests

SECTION B

21. a) Fill in the missing information in the table below.
Practice Meaning.

a) _____	Cutting side branches.
b) Coppicing	_____
c) Pollarding	_____
d) _____	Removing excess part of a plant.

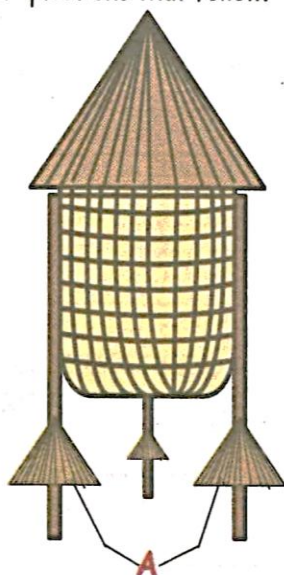
22. a) Name the disease caused by hook worms in humans.

- b) Give any two signs of worm infestation in humans.

- i) _____
- ii) _____

- c) State one way of controlling worms in humans.

23. The diagrams below shows a structure used to store food. Study it and use it to answer questions that follow.



- a) Identify the farm store shown above.

- b) Give the function of component A on the above structure.

- c) Identify any two crops that can stored in the above structure.

- i) _____
- ii) _____

24. a) Mention two advantages of modern bee hives.

- i) _____
- ii) _____

- b) State two ways of controlling swarming of bees on the farm.

- i) _____
- ii) _____

25. a) What is seed dormancy?

- b) State two factors that may cause seed dormancy.

- i) _____
- ii) _____

- b) Give any one need for a viable seed to become a seedling.

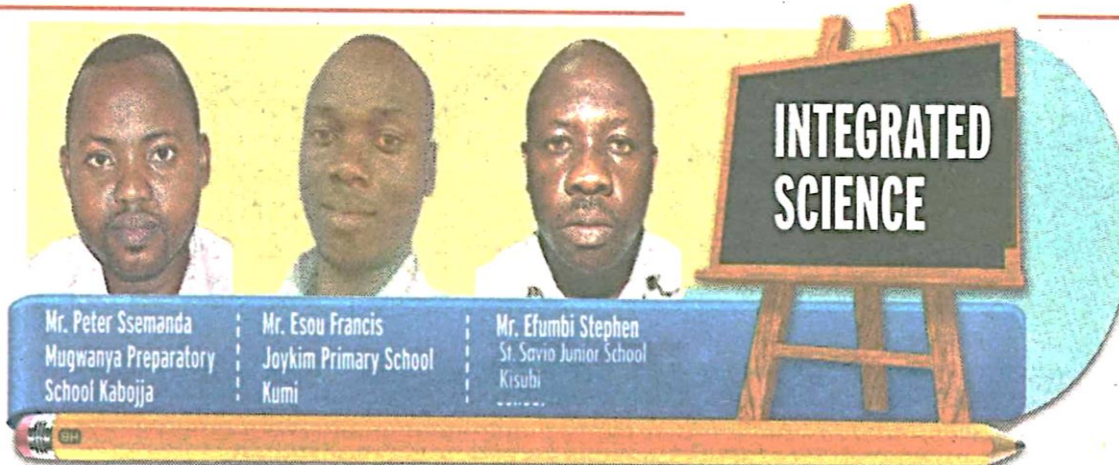
ANSWERS FOR ISSUE 51
15TH SEPT

1. Mention the type of incubation recommended for commercial poultry farming.
2. State one characteristic that is common to both biological and chemical changes.
3. Give any one reason why people prefer keeping rabbits to goats in their farms.
4. State one service a pregnant women should go during antenatal visits antenatal care.

The diagram below is of a signpost at school use it to answer questions 5 and 6

Abstain from sex

5. In which way is the sign post above important to a P7 pupil?
6. In your view, name one other sign-post you can advise your headteacher to place in the school compound.
7. Give one reason why young children always face dehydration challenge.
8. Mention any one reason why young



SECTION A

children should be fed on more proteins than carbohydrates.

9. In which way are living organisms useful in the soil?

The diagram below shows part of a plant. Use it to answer questions 10 and 11.



10. How is part marked C useful during propagation of a plant?
11. Name one part of a plant that develops from part marked W
12. Mention any one way of saving energy in our homes.
13. State one effect of taking over dose of drugs in a home.

14. How are the ossicles important in the hearing process?

15. State one water habitat vector disease common among people who live along the neighbourhood of a river.

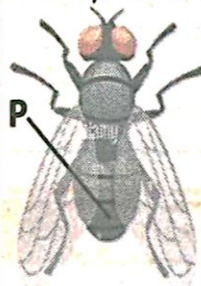
16. Name any one type of latrine considered be a source of manure to farmers

17. Which body organ helps a P.6 girl to identify whether tea is hot or cold.

18. State any one anti-social behaviour at school.

19. State one liquid fuel commonly used at home.

The diagram below shows the structure of a housefly. Use it to answer questions 20.



20. Why can the above insect die if part P is fully deeped in water for some time?

1. Sugar dissolves in water.
2. Leads to maternal anaemia, leads to weak uterus.
3. Decomposition, weathering.
4. Capillaries.
5. Chemical change.
6. Eggs.
7. May lead to choking, indigestion.
8. Installing lightning conductors on top of tall building.
9. To fatten them, to put on more meat.
10. Giving them enough food/ de-beaking.
11. To separate degradable materials from non-biodegradable ones.
12. Uprooting, digging out.
13. To enable proper growth of the tubers.
14. Bloody faeces with mucus.
15. Ovary.
16. Temperature, wind, altitude.
17. Damage some body organs which can lead death.
18. To blow smoke into the hive which calms.
19. Circulatory system.
20. Water is used to generate hydro-electricity.

Section B.

21.

Practice	Meaning
a) lopping	- Cutting side branches.
b) Coppicing	- Cutting the tree from the base
c) Pollarding	- Cutting the growing tip of a tree
d) pruning	- Removing excess part of a plant.

21. a) Name germ that causes AIDS in people.

- b) Give two reasons why people with HIV/AIDS are freely allowed to mix up with healthy people in the community.

- i) _____
- ii) _____

- c) Mention any one danger of HIV/AIDS to the community.

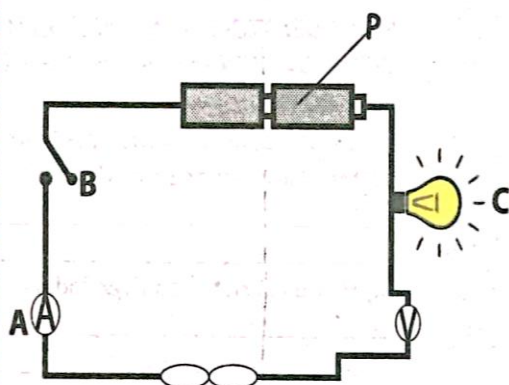
22. a) State any two examples of soil pollutants in the environment.

- i) _____
- ii) _____

- b) Mention any two ways of protecting soil against pollutants in the environment.

- i) _____
- ii) _____

23. The diagram below shows an electric circuit. Use it to answer the question about it.



- (a) Name part labelled with letter B.

- (b) How is part marked P useful to the circuit?

- (c) State one energy change that takes place at C when part B is closed.

- (d) Name one danger that can be faced when you connect twelve cells in the above circuit.

- 24 (a) Write down the process which leads to production of alcohol of a high concentration.

- (b) Apart from drinking alcohol, mention any two other uses of alcohol to people.

- i) _____
- ii) _____

- c) State one danger of alcoholism to the country.

25. You are provided with a plastic bottle, cold water, source of heat, and hot water. State four steps you will follow to show that matter exerts pressure using the above items

22. a) Hookworm anaemia.
- b) Diarrhoea, worm segments in the faeces, itching around the anus.
- c) Eating washed fruits, washing hands before having a meal, proper disposal of faeces.
- 23.
- a) Granary.
- b) prevent rats from entering the granary.
- c) Maize, rice, sorghum, cassava
24. a) clean honey is collected, harvesting of honey is easy, honey is to harvest.
- b) Feeding bees, planting flowering plants around the hive.
25. a) This is the inability of a seed to germinate.
- b) Premature seeds, too dry seed, too much sunshine, failure to get the necessary conditions for germination.
- b) presence of water, oxygen and warmth.