

## SCIENCE MODERATED ITEMS 2023

### ITEM 6/15

### MAKING GUIDE 6/15

#### SECTION A:

1. Which body part of a cow is attacked by a disease detected by using a strip cup?

Udder

2. Name the organisms found in root nodules.

Nitrogen fixing bacteria

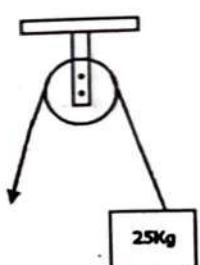
3. What type of germination do cereals undergo?

Hypogaeal germination

4. Give one use of trees around a home.

- Trees act as windbreaks.  
- Trees are source of shade.

5. Calculate the effort needed to raise a load of 25Kg. using the machine shown below.



$$MA = \frac{L}{E}$$

$$E \times 1 = \frac{25\text{Kg} \times E}{2}$$

$$E = 25\text{kgf}$$

The effort of 25kgf is required.

5. Calculate the electrical force produced by 4 ordinary dry cells.

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$$1 \text{ dry cell} = 1.5 \text{V}$$

$$4 \text{ dry cells} = (1.5 \times 4) \text{V}$$

$$= \underline{\underline{6 \text{V}}}$$

6. Give the importance of webbed feet to a duck.

A webbed foot helps a duck to swim in water

7. What is obtained by mixing a solvent with a solute?

Solution.

8. Name the organ which controls the central nervous system.

Brain.

9. What condition leads to goiter?

Lack of iodine in the diet.

10. What is common about the blood carried by the venacava and the pulmonary vein?

Both the vena cava and pulmonary vein carry blood towards the heart.

11. How are seeds of a blackjack dispersed?

By animals.

12. How do ferns differ from mushrooms?

Ferns contain chlorophyll while mushrooms do not contain chlorophyll.

13. What is the function of saliva in food digestion?

- Saliva softens food.

- Saliva cools down food.

- Saliva lubricates food for easy swallowing.

14. State the use of a fuse in an electric circuit.

The fuse breaks the circuit in case of too much current flow.

15. How is heat transfer by radiation different from heat transfer by conduction? Heat transfer by radiation does not require any medium while heat transfer by conduction requires a medium.

16. Where in the body of a mammal does conception take place?

In the Oviduct (fallopian tube)

17. Why are roughages important in food digestion?

Roughages prevent constipation.

18. State one effect of motor accidents on people's health.

Motor accidents lead to loss of life.  
They lead to lameness.

19. How does overgrazing lead to soil erosion?

overgrazing leaves the land bare exposing it to erosion agents.

20. Write HIV in full.

Human Immunodeficiency Virus.

21. Why is a vulture an important bird in the environment?

Vulture clean the environment by feeding on carrion (rotten flesh)

22. Apart from lungs and kidneys, name one other excretory organ of a human body.

Liver

Human skin

23. What is the importance of chlorophyll during photosynthesis?

Chlorophyll traps sunlight during photosynthesis

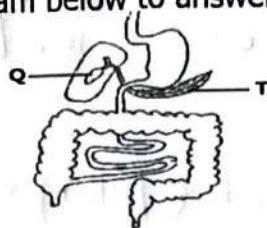
24. Which disease is characterized by loss of feeling in the body?

~~leprosy~~ Leprosy

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Note:- Polio causes feeling faint due to paralysis.

Use the diagram below to answer questions 26 and 27.



25. What is the function of the liquid stored in part marked Q?

To break down fats for easy digestion.

26. Name the digestive juice produced by part T.

Pancreatic juice

27. What causes fainting? Limited supply of oxygenated blood to the brain.

28. Give one reason why water is used in preparing oral rehydration solution.

To replace the lost water in the body of a dehydrated person.

29. Why is immunization in Uganda given to children freely?

To encourage all parents to take their children for immunisation.

30. Why is water not a good material in extinguishing petrol fires?

Petrol floats on water and continues to burn.

31. State one way of avoiding hookworm infection.

Through wearing sandals when walking in dirty places.

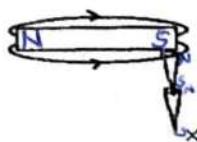
32. What change does salt undergo when it dissolves in water?

Physical change.

33. State the primary sex characteristic that takes place only in male adolescents.

\* Boys experience wet dreams.  
\* Testes start producing sperms.

Use the diagram below answer questions 35 and 36.



34. What method of magnetization is illustrated above?

Induction method.

35. What pole will X be?

South pole.

36. At what stage of growth is a frog similar to a fish in terms of breathing?

At its tadpole stage.

37. What do you understand by the term arson?

Arson is the act of setting one's property on fire. // Is the act of putting one's property ablaze.

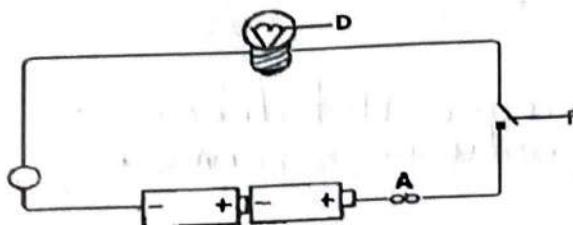
38. Explain how a shadow is formed.

A shadow is formed when light rays are obstructed by an opaque object.

40. Name one pest that destroys maize plants.

Monkeys, Termites, Rats  
Section B

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



- (a) What is the function of the following in the electric circuit?

- (i) part A: - To break the circuit in case of too much current flow
- (ii) Part F: - To break or complete the circuit at user's will.

- (b) Name the mineral from which part D is made.

Wolfram.

- (d) Give the energy change that takes place at D when the circuit is closed.

Electric energy changes to heat energy and then light energy.

- 42(a) Name two diseases immunized against at birth.

Polio myelitis

Tuberculosis -

- (b) State one use of a child health card to mothers.

A child health card helps a mother to know the next date of visit to the health centre.

- (d) State one reason why measles is immunized against at the age of 9 months.

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Children are born with natural immunity against Measles which lasts for 9 months.

43(a) Give one reason why people take alcohol.

- To show that they are mature
- To show that they are rich.

(b) Give one method used in preparing alcohol.

- Fermentation method.
- Distillation method.

(c) State one body organ affected by excess taking of alcohol.

Liver      Stomach  
Brain

(e) Mention one danger of alcoholism to a family.

- \* It leads to family neglect.
- \* It leads to poverty in a home.

44(a) What is a balanced diet?

Is a meal containing all food values in their right amount.

(b) What class of food is best for growth and repair of worn out parts of the body?

Proteins.

(c) What is the best food for babies?

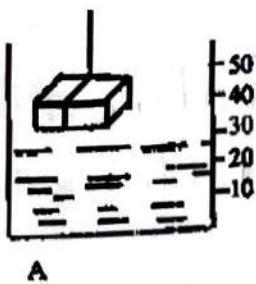
Breast milk.

(e) State one reason why bottle-feeding is highly discouraged.

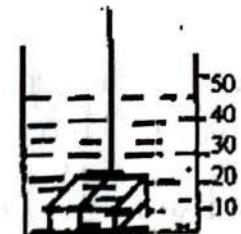
- Formulated milk is hard to digest by babies.
- Animal's milk does not have complete food values needed by the baby.

45. The diagram below a brick being lowered in a cylinder containing water.

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A



B

- (a) What is the volume of the brick?

$V = \text{Final water level} - \text{First water level}$

$$V = 45 \text{ cc} - 25 \text{ cc}$$

$$V = 20 \text{ cc}$$

- (b) If the mass of the brick is 60g, calculate its density.

$$D = \frac{M}{V}$$

$$D = \frac{60 \text{ g}}{20 \text{ cc}}$$

$$D = 3 \text{ g/cc}$$

- (c) Why does the brick sink in water?

A brick has more density than water.

- (d) Why do objects weigh less in water than in the air?

It is due to upthrust force.

- 46(a) What is an alloy?

An alloy is a mixture of two or more metals.

- (b) What alloy is obtained by mixing copper and tin?

Bronze

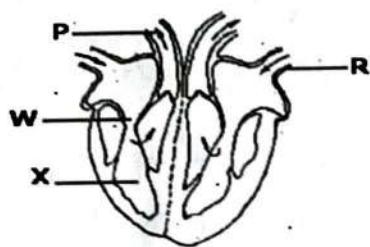
(c) Name one liquid metal.

Mercury'

(e) State one effect of heat on metal.

- Metals expand when heated.
- Some metals melt when heated

47. The diagram below is of a human heart. Use it to answer the questions that follow.



(a) Name part marked X.

Right ventricle

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

To prevent the backflow of blood

(c) To which body organ does part marked P transports blood?

To the lungs.

(d) Which type of blood is transported through blood vessel marked R?

Oxygenated blood.

48(a) What is the importance of oxygen in respiration?

Oxygen burns food to produce energy

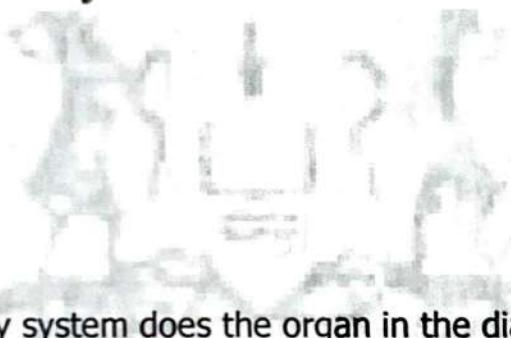
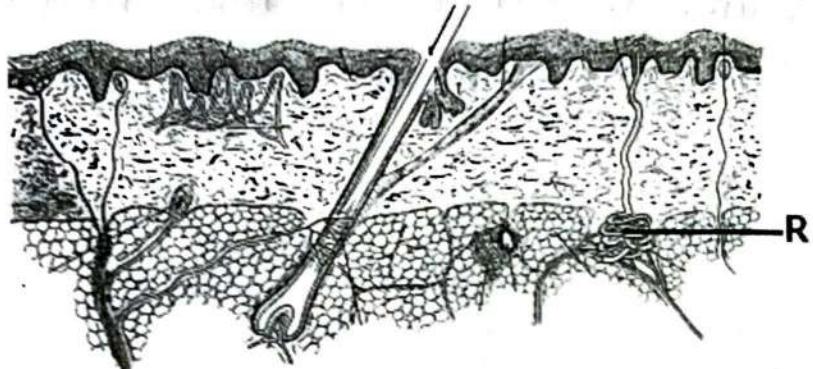
(b) Mention two by-products from respiration.

Carbon dioxide // Water vapour

(c) Mention one danger of having too much carbon dioxide in the body.

- It leads to suffocation.
- It leads to fainting.

49. The diagram below is of a human skin. Use it to answer the questions t



(a) To which body system does the organ in the diagram belong?

Excretory system.

(b) Name part marked R.

Sweat gland.

(c) Mention any one function of the organ shown in the diagram.

- It regulates body temperature.
- It eliminates excess water from the body.

(d) Give one way of keeping the organ in a healthy and good condition.

\* Doing regular physical exercise

\* Bathing daily

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\* Feeding on a balanced diet

50(a) What is an invertebrate?

Invertebrates are animals without backbones.

(b) To which group of invertebrates do insects belong?

Arthropods.

(c) How does a snail protect itself from enemies?

By hiding in its hard shell.

(e) What type of skeleton do insects have?

Exo skeleton.

51(a) State two ways how man destroys the environment.

- \* Through practising deforestation.
- \* Through swamp drainage.

(b) State two ways of protecting the environment.

- \* Putting strict laws against swamp encroachers
- \* Practising reafforestation.

52. Complete the table below correctly.

DISEASE	CAUSE	MODE OF TRANSMISSION
Trachoma	chlamydia germ.....	housefly
Sleeping sickness	Trypanosoma	Tsetse fly.....

Malaria	plasmodia	Female anopheles mosquito
Rabies	virus	Rabid dogs. ...

53 State the use of the following instruments.

- (a) an anemometer - To measure the speed of wind.
- (b) hygrometer - To measure humidity
- (c) barometer - To measure air pressure.
- (d) hydrometer - To measure density of liquids.

53. What do we call each of the following operations?

- (a) removing some crops from an overcrowded field.

Thinning

- (b) collecting semen from a selected bull and injecting it into the body of a female.

Artificial Insemination

- (c) separating productive animals from unproductive ones.

Culling

- (d) giving liquid medicine to an animal using a gun.

Drenching

55(a) Why do the joints in the skull not require synovial fluid?

Joints in the skull are immovable if they don't support movement.

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(b) Why are people not immunized against HIV?

HIV/AIDS is not an immunisable disease.

(c) Why cant people see around corners?

- Light travels in a straight line.
- Light does not travel in corners.

(d) Why do plants not make food at night?

- It is due to absence of sunlight at night.
- There is no sunlight at night.

**END**

**SCIENCE MODERATED ITEMS 2023**

**ITEM 7/15**

**MAKING GUIDE 7/15**

**SECTION A:**

1. Write any one source of light that uses paraffin as fuel.

Paraffin lamps.

2. Why would you group a duck and a goose in the same group of birds?

Both have fully webbed feet for swimming.

3. in the space provided below, draw molecules as they appear in solids.



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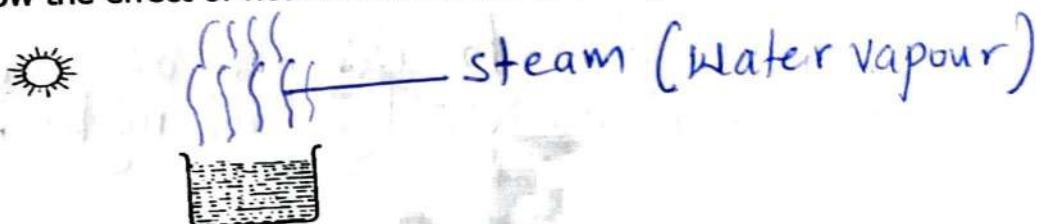
4. Which component of the environment is a habitat for fish and frogs?

Water.

5. State the function on root tubers to a cassava plant.

Root tubers store food for a cassava plant.

6. Draw and show the effect of heat on the water in the open container.



6. Identify one example of a group of simple machines.

Levers | Inclined planes | Wedges | Pulleys

7. Which of these two body organs is used for breathing: a nose, lungs?

Lungs

8. Suggest any one activity a person could do to keep good health of the alimentary organs. - Doing regular physical exercise  
- Avoid drinking alcohol

9. Mention any one thing we use to clean hair.

Comb | clean water

hair Shampoo |

10. In which way is cockroach similar to a housefly as vectors?

- Both contaminate food.

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- Both are involved in Hf's germ path.

11. Suggest any one thing local leaders could do to reduce road accidents on busy roads. - *By putting a zebra crossing.*  
12. Suggest one activity carried out to save a person who has taken rat poison. \* *Giving the victim plenty of fluids.*

13. State any one danger of living in a room with an active smoker.

\* *It leads to passive smoking.*

14. Mention the cattle parasite that spreads East Coast Fever.

*Ticks*

15. Write the element of PHC practised when a person feeds on a balanced diet.

*Food and nutrition*

16. Name any one member of a family who could properly teach babies between 2 – 4 years of age.

*Mother.*

17. How do we care for our bones in the body?

\* *Doing regular physical exercise.*

\* *Eating food rich in calcium and phosphorus.*

18. Which gametes in the human reproductive system work in the same way as pollen grains in a flower?

*Sperm cell.*

19. Identify the form of energy a dry cell contains when it has just been manufactured.

*Chemical energy.*

20. Give a reason why plants are renewable resources.

- Plants can be replaced naturally when used up.

21. Mention any common pest of banana crops.

- Birds

22. What first aid would you give to a fainted casualty?

- Raising the victim's legs higher than the head.

23. Name one disease of the digestive system.

- Appendicitis      Typhoid.  
- Diarrhoea

25. Write the similarity in function between part marked R on the diagram of an insect with the human lungs.



Both are used for breathing.

26. How would you protect a house in a home against strong winds?

\* By planting trees around the house.

27. Write any one activity a person does to control the spread of trachoma.

\* Spraying houseflies using insecticides.

\* Washing eyes regularly using clean water and soap.

28. In one sentence give one activity carried out to improve on soil fertility.

\* Practising crop rotation

\* Mulching -

29. List one social problem that affects the health of adolescents.

- Menstruation .  
- Poverty of parents.

30. Define the word "food path".

Food path are different stages in food production .

31. Mention the name of the thigh bone.

Femur .

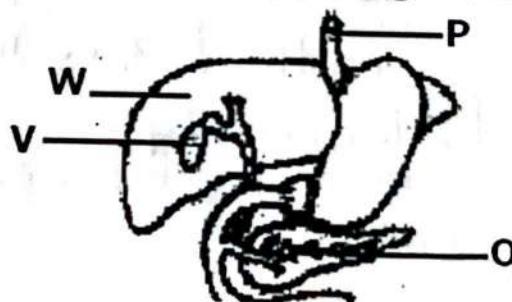
33. How do first class levers make work easy?

By changing the direction of the effort

34. Mass is the amount of matter in an object. Give the standard units used in measuring Mass.

Kilograms

**The diagram shows part of the digestive system. Study it and answer qu**



35. Outline the use of part marked O during food digestion.

- To produce pancreatic juice.

36. Where in the respiratory system is air moistened warmed before it goes to the lungs?

In the nose.

37. Apart from death, identify any other effect caused by road accidents on a person.

\* Accidents lead to lameness.

37. Name the part of the circulatory system shown in the diagram below.



Blood Vessel.

38. Identify the lens that can be used to correct short sightedness.

Concave lens.

39. How does the electrical method differ from stroking method while making a magnet?

Electrical method requires current electricity while stroking method does not require the current electricity.

40. State one activity done by a poultry farmer to control vices among birds.

Debeaking birds.

### Section B

- 41(a) Name the opposing force that works between moving surfaces.

Frictional force.

- (b) Write two forms of energy produced by the force named in (a) above.

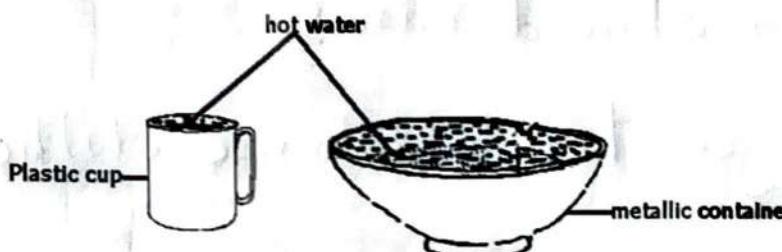
Heat energy // Sound energy.

- (ii) one poultry disease - Coccidiosis, Pneumonia, Newcastle disease
- (c) By use of an arrow, indicate the structures on the sports shoes that increase friction as person is walking.



spikes

42. The diagram below shows two cooling containers. Container A is a plastic and container B is metallic.



- (a) Which container cools the water faster?

Metallic container

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

- A metal is a good conductor of heat.

- A container has a large surface area for cooling than a cup.

- (c) Identify the process that enables water to cool down.

Condensation Evaporation

- (d) Name any natural change where the process name in (c) above takes place.

During rain formation (Rain cycle)

43(a) What is personal hygiene? - It refers to the way of keeping the body clean.

(b) Write two activities a person carries out to keep clothes clean.

- Washing clothes.
- Ironing clothes after washing.

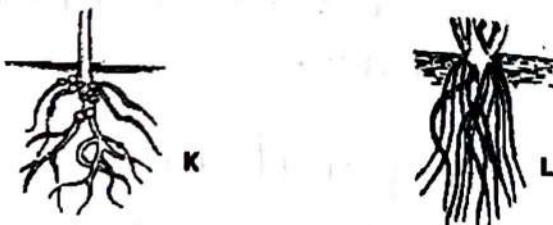
(c) Suggest any one danger of not keeping clothes clean.

- It leads to skin diseases.
- It encourages lice to colonise clothes.

44. Match the following items correctly.

PART	FOOD DIGESTED
Mouth	milk sugars
Duodenum	cooked starch
Stomach	fats
lactose	proteins

45. The diagram below shows two root systems. Study them carefully and answer:



(a) Identify the root systems labelled with letters K and L.

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K - Taproot system.

L - Fibrous root system.

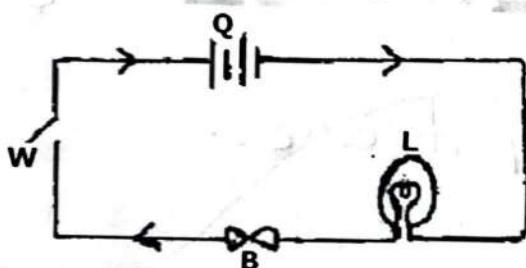
(b) Write two uses of roots to plants.

- Roots hold the plant firmly in the soil.
- Roots absorb water and mineral salts for the plant.

46(a) Give two domestic appliances that use both electricity and magnets.

- Radios
- Television set.
- Electric bell
- Loud speakers
- Refrigerators

The diagram below shows a simple electric circuit. Use it to answer the questions that follow.



(c) Name part marked B.

Fuse

(d) What is the voltage in the simple electric circuit shown above?

$$V = (1.5 \times 2)$$

$$V = 3 \text{ volts.}$$

47(a) Define the term skeleton.

Is the structure that supports the body of an organism.

(b) Write any two functions of a human skeleton.

- \* It supports movements.
- \* It gives shape to the body.

(c) In which is a skeleton in a goat different from that of a bee?

A goat has an endo skeleton while a bee has an exo skeleton.

48(a) Write any three types of chicken reared in Uganda.

- Layers
- Broilers
- Dual purpose chicken

(b) List any one product obtained from poultry.

- chicken
- feathers
- Eggs
- chicken droppings

49(a) What name is given to the diseases we due to poor feeding?

Deficiency diseases.

(b) Give two examples of such diseases as mentioned in (a) above.

- |             |                   |
|-------------|-------------------|
| Kwashiorkor | - Ariboflavinosis |
| Marasmus    | - Pellagra        |
| Goutre      | - Beriberi        |

(c) Suggest one way of preventing such diseases.

By feeding on a balanced diet.

50(a) List any two common types of changes in the environment.

- Biological changes
- Physical changes
- Chemical changes

- (b) To which type of change does rusting belong?

## Chemical change

- (c) What piece of advice would you give to people to control rusting in metallic tools? *Advising them to paint their metallic tools.*

- \* Advising them to paint their metallic tools.
  - \* Advising them to oil their garden tools.
  - \* Advising them to keep their metallic tools in a cool dry place.

- 51(a) Mention any one example of energy resources.

## Wind Animals · Plants -

- (b) Why is the item you have given in (a) above called an energy resource?

It provides useful energy to people.

- (c) Mention one form of energy obtained from the above energy resource.

## Mechanical energy .

- (e) Suggest the best way of handling energy resources that are non-renewable.

renewable. \* Using them sparingly.

\* Using alternative energy resources.

- 52(a) Give any two examples of diseases spread by mosquitoes.

Culex mosquito. Yellow fever

## Elephantiasis Malaria

- (b) Mention the cause of one of the diseases you have named in (a) above.

- Filaria worms - *Elephantiasis* / Malaria -
- Yellow fever - *Flavivirus* / *Plasmodium*

- (c) How could you control the spread of such diseases without polluting the environment? \*Draining stagnant water

\* Slashing tall grass

53(a) Identify the sounds made by the following animals:

(i) duck - quacks .

(ii) dog - Barks .

(b) Give one device used to produce sound.

- Loud speakers .

- Musical instruments

(c) Give one example of a local stringed instrument.

- Bowharp .

- Tube fiddle .

54(a) List two body organs which work together to make proper circulation of blood and oxygen in the body.

- Lungs

- Heart

(b) Give the role of each of the organs you have named in (a) above in blood circulation:

Lungs - For gaseous exchange .

Heart - To pump blood to all body parts.

55(a) Identify any two requirements for starting a livestock farm.

Capital - Labour

Land - Market

(b) Give any two advantages of keeping records on a farm.

\* Farm records are used for fair tax assessment .

\* Farm records help a farmer to plan for the farm.

## **SCIENCE MODERATED ITEMS 2023**

### **ITEM 8/15**

### **MAKING GUIDE 8/15**

#### **SECTION A:**

1. Name the body organ that detects the smell of good food.

**Nostrils / Nose**

2. Why is it dangerous to touch uninsulated electric wires?

**It leads to electric shock.**

3. Apart from discs and memory cards, name other device that can be used to store sound.

**Cassette tapes**

**Computers**

**Magnetic tapes**

**Cinefilms**

4. Identify one activity of man that leads to misuse of wetlands.

**- Construction of houses -**

**- Industrialization**

**- Road construction.**

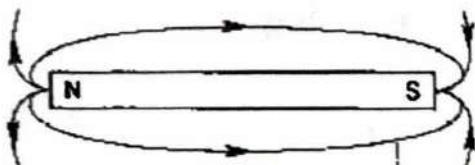
5. Of what use is a crop in the digestive process of birds?

It softens food // It moistens food.

6. What force is used to sharpen tools?

Frictional force.

7. What property of magnetism is illustrated below?



Magnetic forces of lines in a magnetic field run from north pole to south pole.

7. Oxygen is one of the components of air. How can it a danger to man?

Oxygen supports rusting of garden tools.

8. How is the process of decomposition (decay) useful to farmers?

Decomposition helps in the formation of humus which makes soil fertile.

9. Mention one item used in keeping the human body clean.

Clean water // bathing sponge // Bathing soap

10. Why is a blanket able to keep a person warm at night?

By insulating the person's body.

11. How does polio affect the skeletal system?

Polio causes lameness of limbs.

12. Mention one factor that leads to food poisoning.

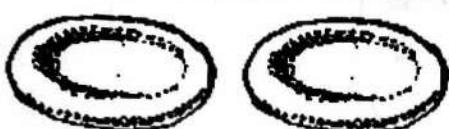
\* Carelessness of parents.

\* Ignorance.

13. Mosses are plants and mushrooms are fungi. How are mosses and mushrooms similar?

Both mosses and mushrooms reproduce by means

15. State the use of the blood cells shown in the diagram below.



To transport oxygen in the body.

16. State the method used to find the volume of a papaw.

Displacement method.

17. Write down one exotic beef breed of cattle.

Hereford // American beef master.  
Short horn // Galloway

19. Give one importance of a child health card to parents.

A child health card helps a parent to monitor  
child's growth

20. In which way are regular physical exercises important to the body?

- \* They help in body flexibility.
- \* They reduce the risks of obesity.

21. State the element of PHC that controls population growth.

Family planning.

22. Which pest can be controlled using traps?

Rats // Mole rats // Squirrels.

23. Give one health need of a pregnant woman.

Antenatal care.

Feeding on a balanced diet.

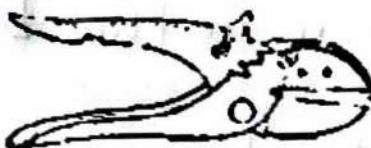
24. Why should every family have enough food?

To prevent malnutrition // To prevent malnutrition, deficiency diseases

25. What makes the skin a storage organ?

The skin stores fats

25. Mention the activity farmers carry out using the tool below.



Pruning

26. Give the vector that breeds in rubbish heaps.

Housefly

27. State the danger of sharing drugs meant for one patient.

It leads to underdose

28. Write one living component of the environment.

Plants // Animals

29. State one health benefit of cooking food.

Cooking food kills germs in it

30. Apart from filtration, identify one other way of making dirty water clean.

By decantation

31. Which sexually transmitted disease affects eyes?

Gonorrhoea

32. What happens when light rays meet a transparent material?

Light rays penetrate through transparent object

33. Where does re-absorption of useful materials take place in the kidney?

In the medulla

34. How is a sperm cell in human beings similar to pollen grains in plants?

Both are male reproductive gametes.

35. Give one advantage of the paddock system in cattle keeping.

Paddock system controls ticks on the farm.

36. Why is a latrine important in a home?

For proper disposal of human wastes

39. Name the disorder that affects the digestive system due to lack of teeth.

Indigestion

40. Write down one cause of violence in a home.

- Poverty
- Alcoholism

41. How do trees clean the environment?

Trees absorb carbon dioxide from the atmosphere and release oxygen in the atmosphere.

42. Name one group of living things.

Plants  
Animals.

### Section B

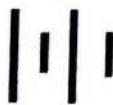
41. The diagram shows symbols representing parts of an electric circuit.



(i)



(ii)



(iii)

(iv)

- (a) Identify the parts shown by symbols (i) and (ii).

i) Electric switch    ii) Ammeter.

- (b) State the form of energy stored in the part represented by symbol (iii).

Chemical energy -

- (c) Give the function of the part represented by symbol marked (iv).

It breaks the circuit in case of too much current flow along me two energy resources got from water.

- 42(a) Name two energy resources got from water.

## - Hydro electricity

- Geothermal electricity - Tidal electricity

- (b) How are the above mentioned resources friendly to the environment?

\* They control deforestation.

- 43(a) Outline the two types of immunity.

## \* Natural immunity.

## \* Artificial immunity -

- (b) What immunisable disease is a water borne disease?

Translational  
Polio

- (d) Why is getting immunity after a long illness not a good method?

It may result into death.

- 44(a) Explain the following terms in crop growing:

- (i) thinning - Is the removal of excess plants from the garden.  
(ii) weeding - Is the removal of unwanted plants from the garden.
- (b) Give two advantages of mulching.
- \* Mulching improves soil fertility.
  - \* Mulching maintains soil moisture.

45(a) How does a human body allow movement?

By the help of movable joints

(b) Name the type of joint found in the cranium of the skull.

Suture joints

(c) Write down two ways of keeping the skeletal system in a good working condition.

- \* Doing regular physical exercise.
- \* Maintaining good body posture.

46. A village chief uses a drum to call people for community work.

(a) How does the sound from the drum reach people?

Through sound waves.

(b) How does the drum produce sound?

By vibration of the surface when hit/struck

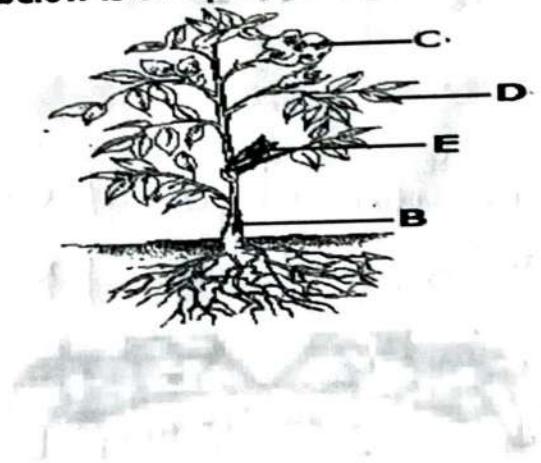
(c) Apart from the drum, name any other percussion instrument.

Shakers / Long drum / Xylophone

(d) How can a person playing a drum produce sound of different pitch?

By varying the temperature of the surface of a drum

47. The diagram below is of a plant. Use it to answer the questions that follow.



- (a) Of what importance is part C to a plant?  
*For reproduction.*
- (b) Name the parts labelled B and E.  
*B - Stem  
E - Fruit*
- (c) Apart from photosynthesis, give any other process that takes place in part D.  
*Transpiration*

48(a) Kagolo earns money from charcoal burning. In which two ways is this activity bad to the environment?

- \* Charcoal burning leads to air pollution.
- \* Charcoal burning leads to deforestation.

(b) Suggest two ways charcoal use can be reduced.

- \* By encouraging rural electrification.
- \* By using alternative energy resource for cooking.

49. The data shows information collected from two homes of Kato and Wasswa.

Kato's Home	Wasswa's Home
1. Has a latrine.	1. Use bush for defecation.
2. Has a plate rack.	2. Has a place rack.
3. Boils water for drinking.	3. Boils water for drinking.
4. Has a clean and well maintained compound.	4. Has a dirty and bushy compound.

(a) Which of the homes is likely to have health problems?

Kato's home.

Wasswa's Home

(b) Identify the two things likely to affect health in the home named in (a) above.

- \* Breakout of diarrhoeal diseases.
- \* Snake bites due to tall grasses near the home

(c) Mention one disease likely to affect people living in the home you have named in (a) above.

- \* Diarrhoea
- \* Typhoid
- \* Malaria

50(a) Under what condition may a magnet lose its magnetism?

- Continuous heating -
- Passing alternating current through a magnet.

(b) Give two ways how magnets are important in our everyday life.

- \* Magnets remove iron fillings from the eyes.
- \* Magnets separate a mixture of magnetic and <sup>non-magnetic</sup> materials.

51(a) State two factors that can lead one to smoke.

- \* Peer group influence.
- \* Family background.

(b) Give one poisonous substance found in tobacco smoke.

Tar.

(d) Name the crop from which cigarettes are made.

Tobacco

52(a) What is mechanical advantage in relation to machines?

Mechanical advantage refers to the ratio of Load to effort.

(b) Under what group of machines is a nut cracker?

Levers

(d) Name one force that affects the efficiency of a machine.

Frictional force -

Gravitational force -

- (d) Draw a wedge in the space provided below.

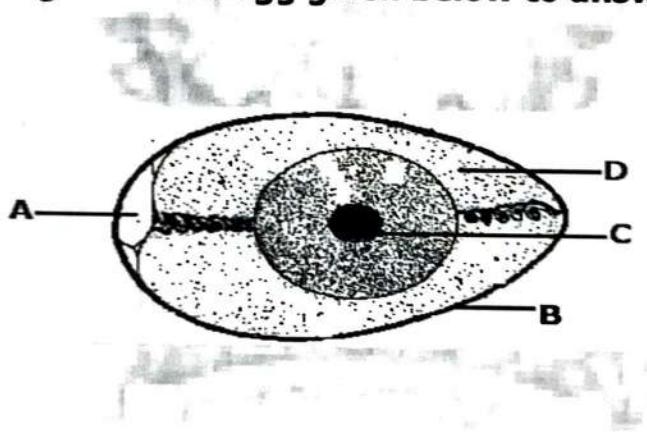


A Knife.

- 53 Match the organs with their functions.

- |               |                                     |
|---------------|-------------------------------------|
| (i) kidney    | produces insulin                    |
| (ii) liver    | stores information                  |
| (iii) brain   | filters harmful products from blood |
| (iv) pancreas | produces heat in the body           |

54. Use the diagram of an egg given below to answer the questions that follows.



- (a) Name the part marked C.

Embryo

- (b) Give the functions of parts A and D.

A - Provides fresh air to the embryo.

D - It provides water and fats to the embryo.

- (c) Why is part B porous?

To allow gaseous exchange.

- 55(a) Identify two natural sources of light.

Sun Moon Star

(b) How is light useful to plants?

Light helps plants to make starch during day time.

(c) Why can't people see around corners?

Light travels in a straight line.

**END**

