

SECTION A: (40 MARKS)
(Question 1 to 40 carry one mark each)

1. State **one** habit that causes danger to the human body.

2. Identify any **one** way of controlling parasites like fleas and mites in poultry.

3. Babirye entered an empty hall. She shouted loudly and heard other similar shouts after her own. How are such sounds produced?

4. Give **one** reason why recycling of waste materials is a good practice towards the environment?

5. What do we call the taking of drugs in quantities greater than the prescribed by a health worker?

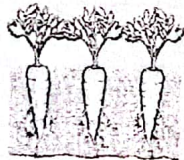
6. Give **one** cause of sickness in the community.

7. Why should people treat water before use?

8. How do fish help to control malaria in an area?

9. Why is it a good practice to apply chicken droppings in the garden?

10. Write the type of root system shown below.



11. State **one** way a family can avoid the spread of measles.

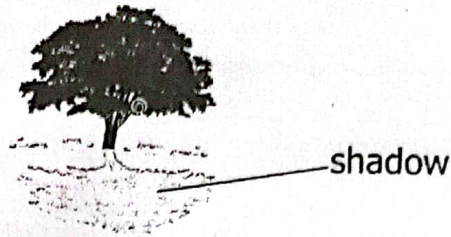
12. Give **one** way in which the human heart is suited to its function.

13. Hope used water to put out petrol fire but it continued burning. State a reason for this.

14. Mention **one** natural cause of a family failing to have enough food.

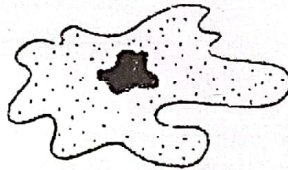
15. State **one** reason why we are encouraged to use electric energy other than wood energy?

Study the diagram below of a tree and answer question 16.



16. Name the time of the day.
17. A P.7 pupil lost a pin in tall grass. Explain how he can recover the pin without cutting the grass.
18. Which human organ is protected by the rib cage?
19. How is hydrochloric acid found in your stomach useful in the digestion process?
20. In which way is rusting similar to burning?

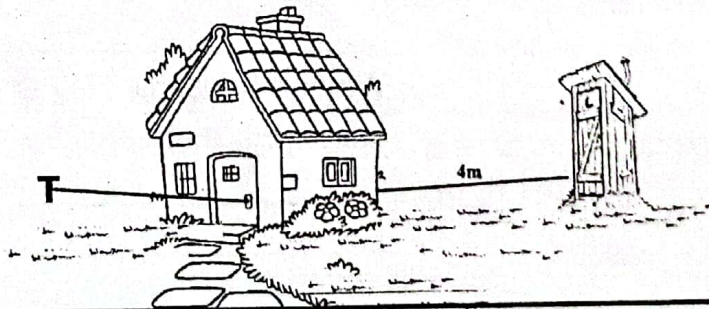
The diagram below shows a component of blood.



21. How is the above component useful in our bodies?
22. Convert 50°C to $^{\circ}\text{F}$.

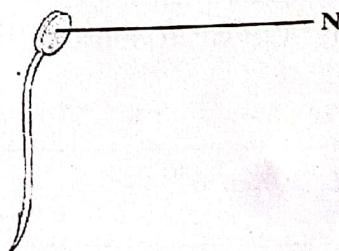
23. Give **one** advantage of cooking food first before eating.

The diagram below shows a living house and a latrine. Use it to answer questions 24 and 25.



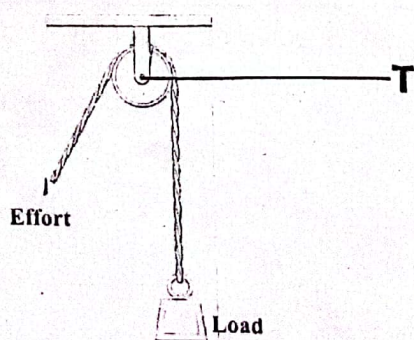
24. To which group of simple machines does the knob at **T** belong?
25. State **one** problem that results from having a latrine at the above distance.
26. Give **one** importance of having young farmers' clubs in a school.
27. Mention any **one** item used to promote personal hygiene.
28. In what way is wind useful to crop farmers?

The diagram below shows part of a plant and use it to answer questions 29 and 30.



29. What collective name is given to the above part of a flower?
30. State the function of part marked **N** to a flower.
31. Give **one** example of a primary consumer in a food chain.
32. State any **one** way animals are used as energy resources in the environment.
33. Name any **one** local method of preserving food.

The diagram below shows a simple machine. Use it to answer questions 34 and 35.



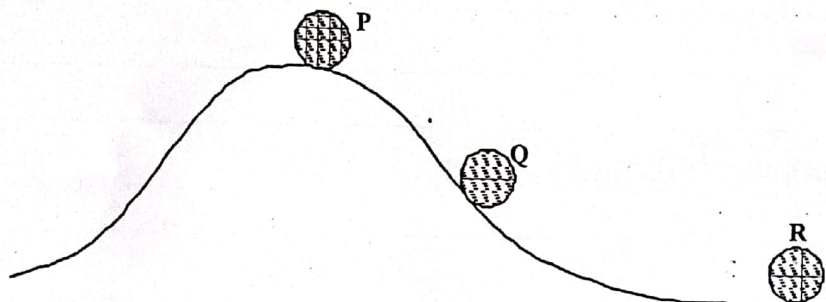
34. Name the pulley system shown above.
35. How can friction be reduced at point **T**?
36. Why do houseflies lay their eggs in decaying matter?

37. Which human body organ requires light energy to function?

38. How does boiling of water make it safe for drinking?

39. State **one** way of keeping the digestive system in a proper working condition.

Study the diagram below and answer question 40.



40. Which type of energy is possessed by a stone at point marked Q?

SECTION B: (60 MARKS)

Question 41 to 55 carry four marks each

41. **Match the following farm tools with their uses.**

<u>Farm tool</u>	<u>Use</u>
(a) Drenching gun	carrying out artificial insemination.
(b) Burdizzo	used for docking of sheep.
(c) Inseminating gun	administering liquid drugs through the mouth.
(d) Sharp knife	carrying out closed operation during castration.

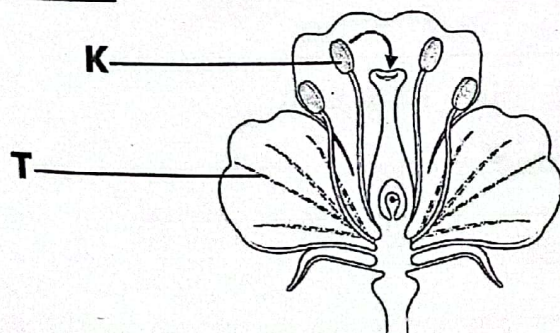
(a) Drenching gun _____

(b) Burdizzo _____

(c) Inseminating gun _____

(d) Sharp knife _____

Below is a diagram of a flower. Use it to answer the questions that follow.



(a) Which type of pollination is likely to take place in the above flower?

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

(c) State the function of the following parts labelled K and T during pollination.

(i) K _____

(ii) T _____

43. (a) Write P.H.C in full.

(b) State any **two** roles of the mother in P.H.C.

(i) _____

(ii) _____

(c) Give **one** example of vulnerable group of people.

44.(a) What is poultry?

(b) Give any **one** example of poultry.

(c) Write down **two** vices common on poultry farms.

(i) _____

(ii) _____

45. **The diagram below shows a climbing plant. Use it to answer questions that follow**



(a) Identify the method of climbing plants shown in the diagram.

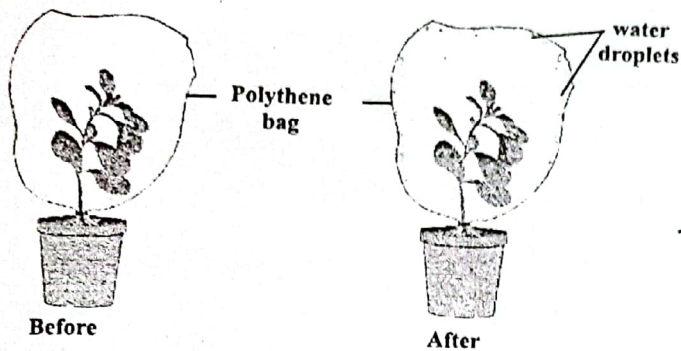
(b) Mention any **two** examples of plants with such a stem.

(i) _____

(ii) _____

(c) State **one** function of stems to plants.

46. **The diagram below is of an experiment to show that plants loose water (transpire). Study and use it to answer questions that follow.**



(a) Give any one reason why water droplets are formed inside the polyethene paper after the experiment.

(b) State any one condition or factor that affects the above process.

(c) How is the above process important to plants?

(d) Mention any **one** use of leaves to animals.

47. (a) State the method used to find the volume of an object without specific shape.

(b) Calculate the mass of an object whose density is 4g/cc and volume is 10cc.
(3marks)

48. (a) How does sound travel? _____

(b) In which one way are echoes important to:

(i) bats _____

(ii) sailors _____

(c) Give **one** way of preventing echoes in cinema halls.

49. (a) Name any **one** common accident at school.

(b) State any **two** reasons why first aid is administered to casualties.

(i) _____

(ii) _____

(c) Mention any **one** safety rule observed by road users.

50. (a) Which virus causes AIDS?

(b) State any **two** traditional practices that may lead to transmission of AIDS.

(i) _____

(ii) _____

(c) What is the best way an adolescent girl can protect herself against contraction of AIDS?

51. (a) Identify any **one** part of the body where each of the following joints are found.

(i) Ball and socket joint _____

(ii) Hinge joint _____

(b) State any **two** protective functions of the skeleton to animals.

(i) _____

(ii) _____

52.(a) Name any **one** crop grown in wetlands.

(b) Suggest any **one** way in which wetlands have been degraded.

(c) Mention any **two** importance of wetlands to people.

(i) _____

(ii) _____

53.(a) State the importance of the following on a house.

(i) Ventilators: _____

(ii) Windows: _____

(b) Why are electric wires hanged loosely between poles?

(c) How is the heat transfer by convection important in the environment?

54.(a) State any **one** way the habit of alcoholism is dangerous to;

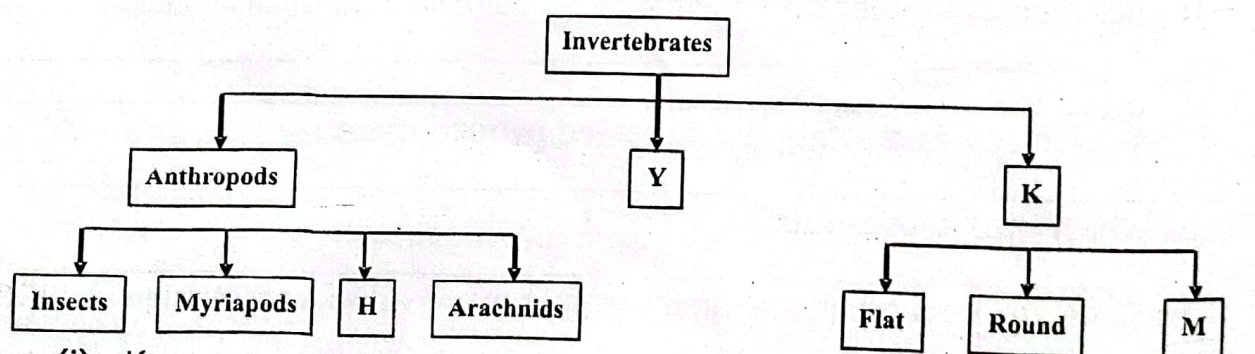
(i) Expectant mothers: _____

(ii) Alcoholic addict: _____

(b) Give any **one** Ugandan Government law that guards against the brewing, selling and use of alcohol.

(c) How can **one** avoid the habit of alcoholism?

55. The diagram below shows a simple classification chart. Complete it correctly and answer questions that follow.



(i) K _____ (ii) H _____

(iii) M _____

(b) Name one group of invertebrates that can be put at Y.

MUKONO DISTRICT EXAMINATIONS BOARD 2024.

P.7 MOCK EXAMINATIONS INTEGRATED SCIENCE MARKING GUIDE

SECTION A: (40 MARKS)

(Questions 1 to 40 carry one mark each.)

1. Smoking / Alcoholism / Drug abuse / Fighting / Playing rough games / Poor nutrition
2. By regular spraying of the poultry house / Smearing the poultry house / Regular sweeping of the poultry house
3. By reflection of sound / When sound is obstructed
4. It prevents environmental pollution / It prevents environment contamination / It reduces breeding places of vectors
5. Over dosing
6. Poor nutrition / Poor sanitation / Poor life styles / Poverty / Ignorance / Over population
7. To kill germs / To prevent water borne diseases
8. Fish feeds on the larvae of mosquitoes / Fish reduces the multiplication of mosquitoes by feeding on their larvae
9. They add on the soil fertility
10. Root tuber
11. Going for immunization against measles / Taking their children for immunization against measles / By isolating the infected ones
12. It is muscular which enables it to pump blood to all body parts
13. Petrol is less dense than water / Petrol floats on water which makes it continue burning
14. Poverty / Ignorance / Laziness / Lack of enough land / Climatic changes / Pests and diseases
15. Prevents environmental degradation / Prevents air pollution / Electricity is quicker than wood fuel
16. Mid-day / Noon
17. By use of a magnet
18. Lungs / Heart
19. Kills germs that escape with food
20. Both are chemical changes / Both form new substance / Both are irreversible
21. Defends the body from infections
22. $F = \frac{5}{9}(C + 32)$
 $F = \frac{9}{5} \times \frac{10}{10} + 32$
 $F = 90^\circ + 32^\circ$ $F = 122^\circ$
23. To kill germs / Making it soft / for easy digestion
24. First class lever / 1st class lever
25. There is easy contamination of water, air, food / Leads to easy spread of diarrhoeal diseases / Leads to a bad smell / Easy spread of houseflies
26. Provides food to the school / Trains farming practices to learners / Organising of tours / Excess food can be sold / For demonstration activities / For agricultural demonstration
27. Tooth brush / Razor blade / Sponge / Water / Soap / Towels / Combs / Shavers
28. Used for: pollination / winnowing / seed dispersal
29. Stamen
30. Produces pollen grains
31. Goats / Cattle / Sheep / Zebra / Giraffe / Caterpillars / Grasshoppers / Birds
32. Labour / Transport / Ploughing / Production of bio gas
33. By smoking / By sun drying / By salting
34. It is a single fixed pulley
35. By oiling / By greasing (By lubrication)
36. Their larvae feed on decaying matter / Decaying matter provides worms to the larvae
37. The eye
38. It kills the germs in water
39. By doing body exercises / Eating a balanced diet / Taking enough water / Having enough rest / Having regular check ups / Eating clean food
40. Kinetic energy

SECTION B: (60 MARKS)

(Questions 41 to 55 carry four marks each.)

41. (a) Drenching gun – Administering liquid drug.
 (b) Burdizzo – Carrying out closed operation during castration.
 (c) Inseminating gun – Carrying out artificial insemination.
 (d) Sharp knife – Used for docking of sheep.
42. (a) Self pollination
 (b) Has a longer filament than the style.
 (c) K – produces pollen grains T – attracts pollinators

- 43.(a) Primary Health Care
 (b) Taking the child for immunization / Providing a balanced diet to the child / keeping the house clean / Boiling drinking water / Cooking food / Breast feeding the baby
 (c) Babies / The sick / Breast feeding mothers / Weaning babies / Pregnant mothers / The elderly / The invalid
- 44.(a) Poultry are birds kept at home
 (b) Chicken / Turkey / Ducks / Pigeons / Doves
 (c) Egg eating / Cannibalism / Toe pecking / Feather pecking / Vent pecking
- 45.(a) Claspings / Training
 (b) Beans / Passion fruits / Vanilla / Peas / Tomatoes / Pumpkins / White yams
 (c) Some store food for the plant / Green stems make food for the plant / Give support to the (leaves, flowers, fruits)
- 46.(a) It is as a result of condensation / By condensation / When water vapour condenses
 (b) Temperature / Size of the leaf / Number of stomata / Size of the stomata / Wind / Humidity
 (c) Cools the plant / Allows the plant to carryout photosynthesis
 (d) They are used as: food / herbal medicine / mulches / biogas / thatching houses / covering food / serving food
- 47.(a) Displacement method
 (b) $M = D \times V$ $M = 4g/cc \times 10cc$ $M = 40g$
- 48.(a) Through sound waves
 (b) (i) Bats: Helps to locate food / Helps to dodge obstacles / Helps them to find their way
 (ii) Sailors: Helps them to dodge obstacles / Helps to calculate distance / Helps to find depth of water
 (c) By using thick curtains / By using soft boards / By using thick carpets / By use of ceilings
- 49.(a) Falls / Cuts / Burns / Scalds / Fractures / Strains / Sprains / Snake bites / Near drowning
 (b) Saves life / Prevents further injuries / For quick recovery / Reduce bleeding / Reduces pain
 (c) Walking along pavements / Crossing the road at Zebra crossing / Observing traffic lights / Keeping right while walking
- 50.(a) HIV / Human Immunodeficiency Virus
 (b) Circumcision / Body tattooing / Jigger extraction / Tooth extraction
 (c) Abstinence from sex
- 51.(a) (i) Hip / Shoulder (ii) Knee / Elbow
 (b) Protects the brain / Protects the lungs / Protects the heart / Protects the spinal cord / Protects reproductive organs / Protects the eyes / Protects the ears
- 52.(a) Rice / Sugarcane / Yams
 (b) Through: road construction / settlement / industrialisation / farming [crop growing, cattle keeping]
 (c) Fishing grounds / Source of water / Source of raw materials for crafts / Source of raw materials for construction / For recreation
- 53.(a) They let out warm air (b) To allow in light / For gaseous exchange
 (c) To give room for contraction on cold weather
 (d) Helps in drying clothes, harvested crops / Enables the smoke to get out the kitchen / Helps to let out bad smell in latrines
- 54.(a) (i) - May lead to pre-mature births / May lead to family neglect / Leads to poor growth
 (ii) - Self neglect / Damages body organs [liver, brain, heart, stomach, digestive system] / Poor job performance / Loss of job / Accidents / Loss of appetite
 (b) Don't drink and drive / People under 18years are not allowed to take alcohol / Bars to open at 5:00pm to 10:00pm
 (c) Knowing dangers of taking alcohol / Joining sports / Joining church choirs / Joining crafts clubs / Avoiding bad peer groups.
- 55.(a) K - Worms H - Crustaceans M - Segmented worms
 (b) Molluscs

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