



THE HIGHWAY EXAMINATIONS
BEGINNING OF TERM II EXAMINATION
PRIMARY SIX

INTERGRATED SCIENCE 2025

Time Allowed: 2 hours 15 Minutes

OFFICIAL MARKING GUIDE

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions. The paper has **14 printed pages** altogether.
3. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than drawing will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss** of marks.
6. Do not fill anything in the table indicated
"FOR EXAMINERS' USE ONLY" and in the boxes inside the question paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

© 2025 The Highway Examinations

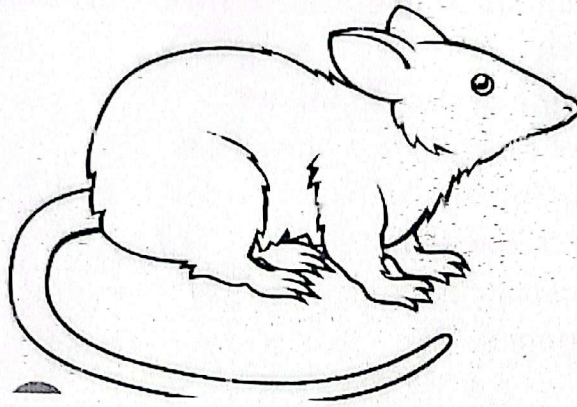
0740888097 / 0783836153

SECTION A

Answer **all** questions in this section.
Questions **1 to 20** carry two marks each.

1. Name any **one** type of roots
 - **True roots**
 - **False roots**
 - Reject
 - **Tap roots** - **Clasping roots** - **Fibrous roots**
 - **Prop roots** - **Stilt roots** - **Buttress roots**
2. Give any **one** reason why sand soil is not suitable for growing crops.
 - **It contains less humus.**
 - **It dries up very quickly.**
 - Reject
 - **It lacks humus.**
3. State any **one** function of the brain in the human body
 - **It stores information.**
 - **It is used for thinking**
 - **It controls all body activities**
 - **It is used for memory/recalling**
 - **It is used for reasoning.**
 - **It is used to interpret information**
 - **It is used for body balance**
4. Name any **one** agent of pollination.
 - **Wind**
 - **Animals**
 - **Water**

The diagram below shows an animal in the group of mammals, study and use it to answer questions 5 and 6.



5. Name the group of mammals to which the animal belongs.
 - **Gnawing mammals**
 - Reject: **Rodents**
6. State any **one** characteristic common to the above animal.
 - **It has well developed incisor teeth**
 - **It has sharp claws for digging up root crops**
 - **It feed on plant materials.**
7. Mention any **one** place where crops can be stored.
 - **Granary**
 - **Buckets**
 - **Sacks**
8. State the basic process of soil formation.
 - **Weathering/Weathering of rocks**
9. Give any **one** reason why the government of Uganda. encourages immunisation of children.
 - **To boost the immunity of the child**
 - **To reduce infant mortality rate**
 - **To prevent lameness due to polio in children**
10. Mention any **one** way of controlling parasites in rabbits.
 - **Regular deworming**
 - **Spraying acaricides**
 - **Hand picking**
 - **Dusting rabbits**
 - **Washing rabbits with water containing chemicals.**

11. State a reason why bees are said to undergo complete metamorphosis.

- **The larvae stage is completely different from the adult in structure and function.**

Reject: **It has four stage of development**

12. Give any **one** way of caring for the human ear

- **By cleaning using ear cotton swabs.**
- **Listening to music at a low volume**
- **Going for regular medical checkups.**
- **Avoid playing rough games**

Reject

- **Cleaning the ear using ear buds**

13. Mention any **one** example of stem tubers

- **Cocoyams /yams**
- **Irish potatoes**

Reject: **white yams // sweet potatoes // cassava**

14. State any **one** reason why harvesting of honey should be done during day time

- **Most worker bees are not in the hive during the day.**
- **To minimize death of bees due to clear visibility during the day.**
- **Clean honey is harvested during the day.**
- **It reduces damage of honey combs**
- **It is easy to detect ready combs with honey.**

15. Mention any one example of local breeds of chicken kept in your community.

- | | |
|------------------------|------------------------|
| - Ugandan Red | - Naked neck |
| - Ugandan Black | - Ugandan Brown |

The diagram below shows a foot suffering from a disease uses it to answer questions **16** and **17**.

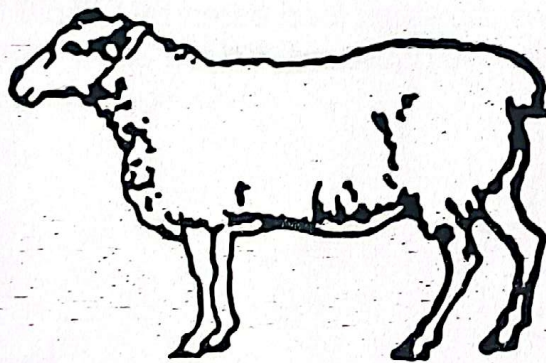


16. Identify the disease on the skin that affects the foot shown in diagram above.
 - **Athlete's foot**
17. Name the germ that causes the skin disease shown by the foot above.
 - **Fungi.**
18. Give any **one** example of body changes that needs to be managed.
 - **Growth of hair**
 - **Menstruation**
 - **Gaining or losing weight**
 - **Falling sick**
 - **Body odour**
 - **Growth of toe and finger nails.**
19. State any **one** danger of taking drug over dose to the body.
 - **It can lead to body poisoning**
 - **It can lead to death.**
 - **It can damage body organs**
20. State any one way of minimising heat loss.
 - **Using a thermos flask - Using energy saving stores**
 - **Using heat exchangers - Using food flask**
 - **Covering saucepans when cooking**

21. Name any one cause of fracture among people in the community.
- **Falls** - **Playing football**
 - **Knocks** - **Kick boxing** - **Rough games**
22. State the reason why displacement method is used when finding the volume of a stone.
- **A stone displaces the amount of water equals to its volume.**
- Reject: **A stone is an irregular object**
23. Give any one effect of chemical change in the environment.
- **They cause formation of new substances.**
 - **They lead to the production of heat.**
 - **They cause formation of alcohol and yogurt**
 - **They reduce the weight, size and mass of objects.**
24. Name the element of primary Health Care which promotes family planning matters.
- **Maternal and child health**
25. Mention any one body part checked on school health parade
- **Hair** - **eyes** - **teeth** - **tongue**
 - **Head** - **toenails** - **skin and feet** - **Finger nails**
26. State any one property of matter
- **Matter has mass.**
 - **Matter exerts pressure.**
 - **Matter occupies space.**
- Reject:
- **Matter has weight.**
27. State any one danger of soil erosion to the environment.
- **It causes soil exhaustion** - **It causes silting**
 - **It destroys plants** - **It blocks drainage channels**
 - **It causes accidents on roads.**
 - **It leads to blockage of water bodies**
 - **It degrades the environment**
 - **It causes potholes on roads**

28. Give **one** reason why we should regularly wash our hands with soap after visiting the latrine.
- **To kill germs in hands**
 - **To prevent diarrhoeal diseases.**
29. Mention any **one** way in which human ears are similar to antennae of insect.
- **Both human ears and antennae are used for detecting sound vibrations.**
 - **Both are used for detecting sound vibrations.**
30. Give any **one** disease and disorder of the teeth.
- **Dental cavity**
 - **Dental plaque**
 - **Broken teeth**
 - **Tooth cracks**
 - **Improper growth**

The diagram below shows a farm practice done in sheep rearing. Study and use it to answer questions **31** and **32**.



31. Identify the farm practices in the diagram above.

- **Docking**



32. State any **one** reason why the above farm practice is carried out.

- **To keep the sheep clean // To improve the hygiene.**

- **To prevent fly strikes**

Reject: **To ease mating in ewes**

33. Give a reason why breast milk is considered to be the best food for babies.

- **It contains all food values**

Reject: **It contains almost all food values.**

34. Name the immunisable bacterial disease which is spread through cuts and wounds.

- **Tetanus**

35. State any **one** condition necessary for a seed to germinate.

- **Water**

- **Oxygen**

- **Warmth**

Accept also: **presence of water, oxygen, warmth.**

Mnemonic: **WOW.**

Reject: Moisture.

36. Name any **one** exotic breed of cattle kept in Uganda.

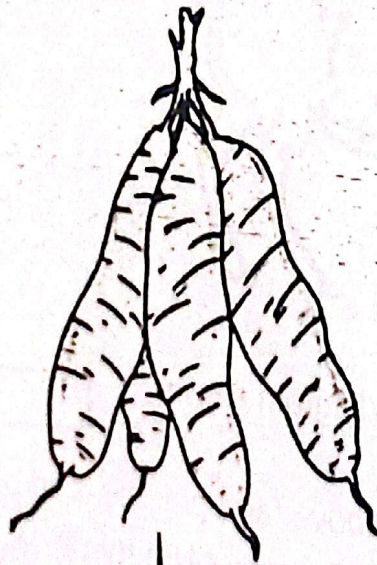
- **Friesians**

- **Ayrshire**

- **Guernsey**

- **Jersey**

The diagram below shows the steps food eaten by people in Uganda study and use it to answer the questions **37** and **38**.



37. Name the staple food shown above

- **Cassava**

38. Mention **one** food value mainly found in the staple food above.

- **Carbohydrates,**

39. Mention any **one** characteristics of wind pollinated flowers

- **They produce a lot of pollen grains**
- **They produce light pollen grains**
- **They have hairy stigma**
- **They have weak filament.**
- **Filaments are longer than the styles.**

Reject:

- **They have dull petals.**
- **They do not produce scent.**
- **They do not produce nectar.**

40. State any **one** way in which vectors spread diseases to humans.

- **Through bites**
- **Through body contact.**
- **Through contaminating food**
- **Through their hairy bodies**

SECTION B

- 41 (a) Apart from a toad, name any **one** other example of amphibians.
- **Frog // caecilian // newt // salamander**
- (b). State any **one** way in which the Jelly is important to the eggs of amphibians.
- **It protects the eggs from being eaten by predators.**
- **It prevents eggs from being swept away by water waves.**
- **It holds eggs together for easy fertilisation.**
- **It holds eggs to float on water.**
- **It prevents eggs from drying up**
- c. Explain any one way in which amphibians are adopted to living in water.
- **They have moist skin which allows gaseous exchange.**
- **They have webbed feet which allows them to swim in water.**
- 42a) Name any **one** class of food.
- **Proteins**
- **Carbohydrates**
- **Vitamins**
- **Fats and oil**
- **Mineral salts**
Reject: **Grow food // Glow food // Energy giving food**
- b. Give **two** ways in which proteins are useful to adults.
- **Replaces worn out body cells.**
- **Repairs worn out body tissues**
Reject: - **Promotes body growth.**
- C. State the cause of marasmus in children.
- **Lack of all food nutrients // food values in the body** Reject:
- **Lack of carbohydrates in the diet**

43 (a) Name any **two** examples of garden tools.

- **Hoe** - **Panga** - **An axe** - **Trowel**
- **Wheel barrow** - **Watering can** - **Pot**

(b) State **one** way in which a trowel is useful to farmers.

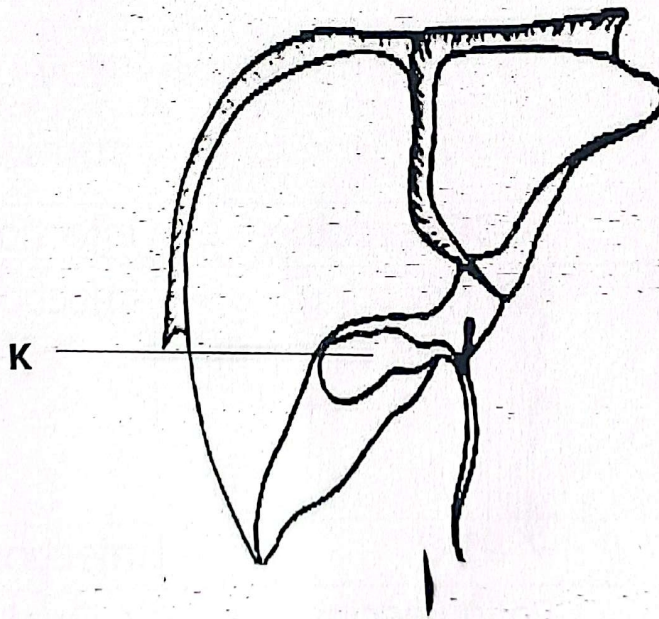
- **Used for transplanting seedlings**

(c). Mention any **one** disadvantage of mulching.

- **Mulching is tiring**
- **Mulches are fire hazard.**
- **Mulches hide some crop pests e.g. termites**
- **Some mulches can grow into weeds.**

Reject: **Mulching is tiresome**

44. The diagram below shows part of the digestive system. Use it to answer the question that follow.



a) Name the part of the digestive system above.

- **Liver**

b) State the role of the above in the digestion of food.

- **It produces bile**

Reject: **Any other answer**

c) State the function of part marked K.

- **It stores bile**

d) Give any **one** health habit that helps to improve the efficiency of the digestive system

- **Feeding on a balanced diet.**
- **Doing regular physical exercises**
- **Going for regular medical checkups**
- **Having meals at regular intervals**
- **Eating right amount of food**
- **Proper chewing of food before swallowing**

45. The table below shows immunisable diseases vaccine and ways of administration. Study and complete it correctly.

Immunisable disease	✓ Vaccine given	Way of administration
Tuberculosis	BCG vaccine	injection
✓ Diphtheria ✓ Tetanus ✓ Whooping cough	DPT vaccine	injection
Pneumonia	✓ PVC	injection
Polio	Polio vaccine	✓ Oral method ✓ Drop in the mouth

You are provided with the following items:

Water, An irregular object, string and measuring cylinder.

Describe how you can use the items to find the volume of an irregular object.

- i. **Pour some water in a measuring cylinder.**
- ii. **Make the reading of the original water level.**
- iii. **Take the irregular object with a string and lower it carefully in a measuring cylinder and mark the final water level**
- iv. **Subtract the original level, water from the final level of water to get the volume of the irregular object.**

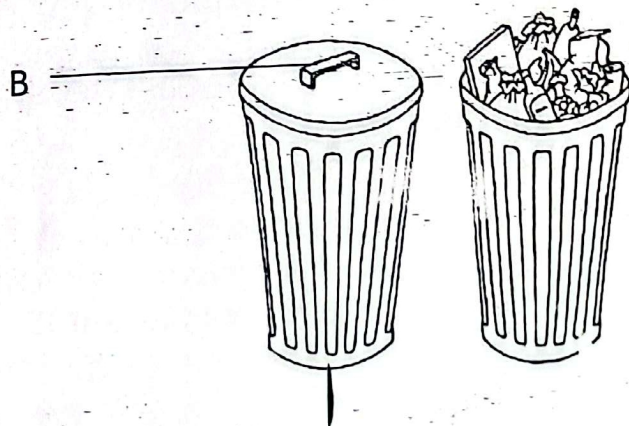
(a) Mention any **two** organisms that live in the soil.

- **Earthworms** - **Moles** - **Caecilians**
- **Termites** - **Millipedes**
- **Bacteria** - **Fungi**

(b) State any two ways in which organisms are important in the soil.

- **They help to improve soil erosion.**
- **They help in the formation of humus.**
- **They improve water drainage in the soil.**

The diagram below shows items commonly used in a community to promote hygiene. Use it to answer questions that follow.



(a) Name the items shown above

- **Dustbins**

(b). State the importance of the above items in the community.

- **For disposing rubbish**

(c). Name part marked **B**.

- **Lid**

(d). Identify the function of part **B** in the above.

- **It prevents rubbish from falling outside the dust bin**

49 (a) Mention any one example of wind musical instrument

- **Flute** - **Trumpet** - **Trombone**
- **Pan pipes** - **Horn** - **clarinet**
- **Tuba** - **Piccola** - **Oboe**
- **bugle** - **Saxophone**

(b) Give a reason why drums are put in sunshine before playing them

- **To increase the pitch.**
- **To tighten the skin in order to increase tension.**

(c). Name any two methods of storing sound.

- **Electromagnetic method**
- **Magnetic method**
- **Physical /Mechanical method**

Reject: **Notation /Recording/Writing**

50. (a). State any **one** example of social insects.

- **Honey bees** - **Wasps** - **Termites**
- **bumble bees** - **Ants**

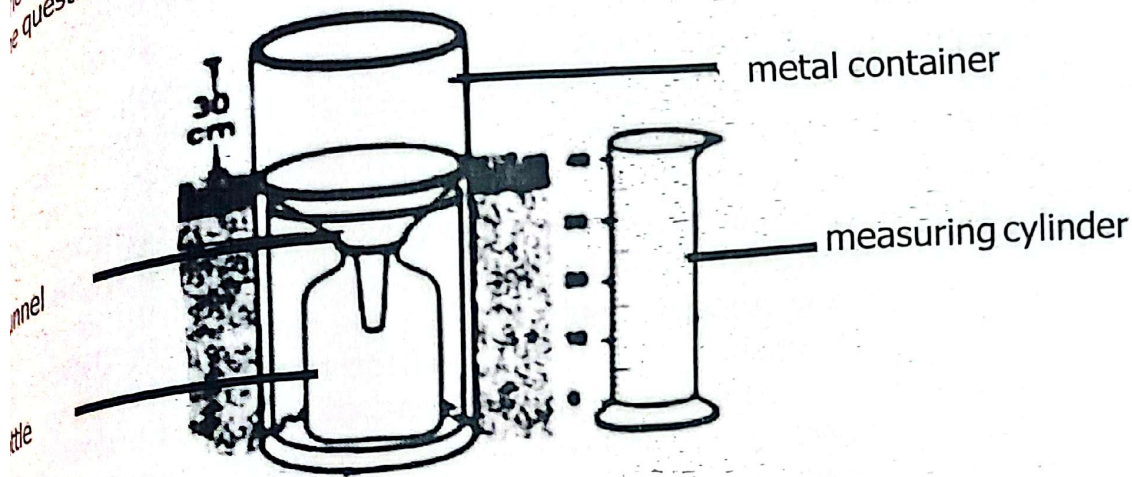
(b). Give a reason why the above insects are called social insects.

- **They live and work together.**

(c). Apart from Mason bees, state any two other example of solitary bees

- **Carpenter bees**
- **Mining bees**
- **Leaf cutter bees**

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



- a) Name the weather instrument shown above.
 - **Rain gauge**
 - b) State one way in which the above weather instrument is useful at the weather station.
 - **Used to measure the amount of rainfall received in an area.**
 - c) Give a reason why the above weather instrument is put 30cm above the ground.
 - **To prevent rain splash from entering the rain gauge.**
 - **To get accurate measurements of rainfall.**
 - d) State the function of metal container
 - **It holds the measuring cylinder**
- 52 (a) State the meaning of the term essential drugs
- **Are drugs which meet people's health needs when used correctly.**
- (b). Mention any one characteristic of essential drugs
- **They are common**
 - **They are affordable**
 - **They are available//accessible**
 - **They cure disease**
- Mnemonic: **CAAC**

- (c). State any one danger of buying essential drugs from local shops
- **One may buy expired drugs**
 - **One may buy contaminated drugs.**
 - **One may buy sub-standard drugs**
 - **The drug might be expired**
- (d). Give a reason why drugs should be kept out of reach of children.
- **To prevent child poisoning**
 - **To prevent drug misuse**
 - **To prevent children from contaminating drugs**

Reject: **To prevent drug poisoning**

53 (a) State any **two** factors that affect the rate of evaporation

- **Amount of heat**
- **Humidity**
- **Temperature**
- **Surface area**
- **Speed of wind**

- (b) Give any **one** way in which the following physical processes are important in nature.

(i) Evaporation

- **It helps in rain formation**
- **It helps in cooling**
- **It helps in distillation process**
- **It helps in drying wet clothes**

(ii) Freezing

- **It is used in preserving food**
- **It helps in cooling drinks**
- **It helps in formation of ice**
- **It is used in making ice cream**

- 4 (a) Mention any **two** components of the circulatory system
- Heat
 - Blood vessels
 - Blood

Reject: **Kidney, Liver, Lungs, brains, intestines**

State any **one** way of increasing the volume of blood in the human body

Through blood transfusion

Feeding on food rich in iron

Taking iron supplement tablets

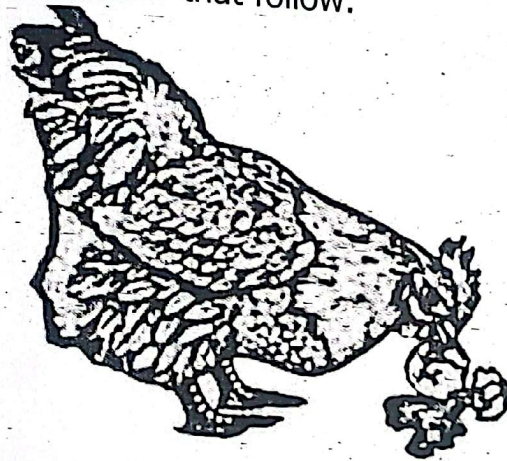
Drinking plenty of fruit juice and water regularly

State the importance of doing regular physical exercise to the circulatory system.

It helps to strengthen the cardiac muscle

It improves blood circulation in the body

The diagram below shows vice commonly found in domestic birds. Study and use it to answer questions that follow.



Name the vice in domestic birds shown above.

- **Egg eating**

Give **one** cause of form of vice above in domestic birds.

- **Lack of calcium in the diet**

- **Boredom among the birds**

- **Failure to collect eggs in time**

- **Hunger due to irregular feeding**

- **Too much light in the nesting area**

- **Presence of broken eggs in the coop.**

c) State any **one** sign and symptom of the above form of vice in domestic birds.

- **Increased egg breakage loss // presence of broken eggs in the coop.**
- **Egg shells with holes**
- **Yellow stains on the bird's beak**
- **Sticky feathers near the beak.**

d) Identify any **one** way of controlling the above form of vice in domestic birds.

- **Providing feeds rich in calcium.**
- **Debeaking the birds**
- **Hanging green leafy vegetables on raised parts.**
- **Putting laying nests in dark corners of the poultry house. // place nests in quiet dark areas.**