

The HIGHWAY EXAMINATIONS

PRIMARY SEVEN QUALITY ASSESSMENT 2025

INTEGRATED SCIENCE

QUALITY MARKING GUIDE

Read the following instructions carefully:

- 1. Do not forget to write your **school** and **district name** on this paper.
- 2. This paper has two sections: A and B. Section **A** has **40** questions and Section **B** has **15** questions. This paper has 13 printed pages.
- Answer allquestions. All the working for both sectionsAand Bmust be shown in the spaces provided.
- 4. **All** answers **must** be done using a **blue ball**point pen or ink. Any work done in pencil will **not**be marked except drawings and diagram.
- 5. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks**.
- Do not fill anything in the table indicated"For examiners' use only" and the boxes inside the question paper.

FOR EXAMINERS'				
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				

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SECTION A: 40 MARKS

Answer all questions in this section.

Questions 1 to 40 carry two marks each.

- 1. Name the component of soil formed when dry grass rots.
 - ✓ Humus

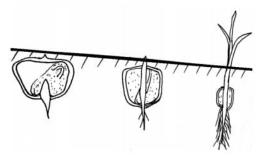
Reject: Rock particles

- 2. Apart from mechanical method, state any **one** other method of storing sound.
 - ✓ Magnetic
 - ✓ Electromagnetic method

Reject: Recording and Notation / Writing

- 3. Mention the source of energy used by plants in the process of photosynthesis.
 - ✓ Sun
- 4. Name the type of teeth which is missing in the milk set of teeth.
 - ✓ Premolars
 - ✓ Reject: molars
- 5. State any **one** way of keeping the circulatory system in a good working condition.
 - ✓ Feeding on a balanced diet.
 - ✓ Doing regular physical exercise.
 - Going for regular medical checkups.
 - ✓ Avoid smoking.
 - ✓ Limit eating only fatty food.

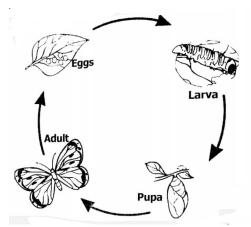
The illustration below shows a germinating maize plant. Study and use it to answer question 6 and 7.



6. Name the type of germination shown above.

- ✓ Hypogeal germination.
- 7. Name the group of flowering plant to which the above belong.
 - ✓ Monocotyledonous plants / Monocots
- 8. State how canine teeth are able to tear food.
 - ✓ They are sharp pointed. Reject: Any answer with feature and function
- 9. Name any **one** example of root tubers.
 - ✓ White yams / sweet potatoes / cassava / carrots / turnips
- 10. When a pen and a paper is released from the top of the building, the pen reached the ground faster than a paper. Give a reason why a pen reached the ground faster than a paper?
 - ✓ A pen has less air resistance than a paper.
 Reject: Due to force of gravity.
- 11. Give a reason why a boat floats on water.
 - ✓ A boat displaces amount of water equal to its weight.
- Identify the type of mechanical energy possessed by a passenger seated in a moving vehicle.
 - ✓ Kinetic energy. Reject: Potential energy

The illustration below shows a life cycle; study and use it to answer questions 13 and 14.



3

- 13. Name the type of lifecycle shown above.
 - ✓ Complete cycle.
- 14. Give a reason to support your answer above.
 - ✓ The larva stage is completely different from the adult stage instructure
 and function.

Reject: It undergoes four stages.

- 15. State what causes marasmus.
 - Lack of all food values.
 - ✓ Lack of all food nutrient.

Reject: lack of carbohydrates.

Note: Marasmus is starvation remember when a person starve you do not lack only one class of food but you will lack all.

- 16. In which way can a person care for his / her ears.
 - Cleaning using ear cotton swabs.
 - ✓ Listening to music at a low volume.
 - ✓ Going for regular medical checkups.

Reject: Cleaning using ear buds

- 17. State any **one** way in which earthworms are important to crop farmers.
 - ✓ Improves on soil fertility.
 - ✓ Improves water drainage in the soil.
 - ✓ Helps in the formation of humus.

Reject: They die to form humus

- 18. State how hookworms enter the body.
 - By penetrating the bare skin.

Reject: By walking bare footed.

- 19. Mention any **one** common accident at home.
 - ✓ Burns / scalds / near drowning / drowning / cuts / electric shock / snake bites / falls / knocks

Reject: Note; that all falls are accidents but not all accidents are falls.

- 20. Give a reason why farmers carryout docking.
 - ✓ To prevent flystrikes
 - ✓ To keep the sheep clean.

Reject: To ease mating/ To enable the sheep grow fat / To expose the vulva to the ram

- 21. Mention any one type of drugs.
 - ✓ Essential drugs
 - ✓ Narcotic drugs

Reject: Modern / Traditional drugs

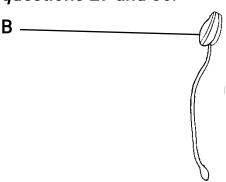
- 22. Name the class of food to which beans belong.
 - ✓ Proteins Reject: Grow food
- 23. State the importance of white blood cells to the circulatory system.
 - ✓ Defends the body against germs / fight against disease germs.
 Reject: Fight against diseases.
- 24. State any **one** way feeding on roughages help to prevent constipation.
 - Roughages absorb water from the stool making it soft.
 - Roughages adds bulk in stool making it easier to pass.
 - Roughages stimulates intestinal muscle contraction.
- 25. Mention any **one** material which is made of clay soil.
 - Clay pots / clay tiles / clay cups / clay plates / clay charcoal stove
 Reject: pots / cups / plates / charcoal stove
- 26. State any **one** way vectors spread germs.
 - By contaminating food
 - ✓ By biting / bites
 - ✓ Through body contact.

Reject: Through hairy bodies.

- 27. State the importance of sunlight during photosynthesis.
 - Provides energy needed by plants to make food.
 Reject: Splits water into hydrogen and oxygen.

- 28. Identify any one type of immunity.
 - ✓ Natural / Artificial immunity
 Reject: Acquired / inherited immunity

The diagram below shows a reproductive part of a flower. Use it to answer questions 29 and 30.



- 29. Name the reproductive part of the flower in the diagram above.
 - ✓ Stamen. Reject: Male part
- 30. Use letter B to show the part that produces pollen grains.
- 31. Write down any **one** by-product of respiration.
 - ✓ Carbon dioxide / Water vapour
- 32. Give a reason why it is advisable to sneeze in a handkerchief when in public.
 - ✓ To control airborne diseases
 - ✓ To prevent droplet infection
 - ✓ To prevent spreading mucus to nearby people.
- 33. State any **one** way in which animals can be used as energy resource.
 - ✓ Animals provide energy for transport.
 - Animals provide energy for ploughing.
 - ✓ Animals provide energy for pulling carts.
 - Animals provide energy for turning machines.
- 34. State **one** way in which the human skeleton is useful to the circulatory system.
 - ✓ It protects the heart.
 - It helps in the production of blood cells.

The diagram below shows an item used to manage weather. Study and use it to answer questions 35 and 36.



- 35. Name the item shown in the diagram above.
 - Umbrella.
- 36. State the element of weather that requires people to use the above item.
 - ✓ Rainfall / Sunshine
- 37. Give a reason why breast milk is considered to be the best food for babies.
 - Breast milk contains all food values needed by the baby.

Reject: Breast milk contains almost all food values

Note: Breast milk contains carbohydrates, proteins, vitamins, lipids and mineral salts

- 38. Name the element of primary health care which promotes quick recovery of the casualty.
 - ✓ First aid

Reject: Accidents and first aid

Note: First aid involves giving initial help to accident victim before getting further treatment.

- 39. State the importance of gills to a mushroom.
 - ✓ Produces spores / It produces spores.
 - Produces and disperse spores.
- 40. Give any one way in which a blacksmith use heat.
 - ✓ For melting metals
 - ✓ For shaping metals
 - ✓ For softening metals.
 - ✓ For bending metals.

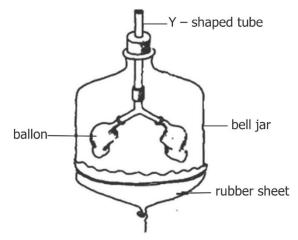
- ✓ For joining metals.
- ✓ For moulding metals.

SECTION B: 60 MARKS

Answer all questions in this section.

Questions 41 to 55 carry four marks each

41. The diagram below shows a model of the human respiratory system. Study and use it to answer questions that follow.



- (a) What does the straw represent in the above?
 - ✓ Trachea / wind pipe / Bronchi
- (b) State what happens to the balloon when breathing in.
 - ✓ The balloon expands / The balloon will expand
 - ✓ The balloon increase in size / volume.
- (c) Explain how you can demonstrate breathing in in the above experiment.

(2 marks)

- ✓ Pull the rubber sheet downwards to allow air into the balloon.
- 42. (a) Mention any **two** activities at home that requires the use of filtration method.
 - When separating water from soil.
 - ✓ When separating juice from fruits.
 - ✓ When separating tea from tea leaves.
 - When preparing local salt.
 - (b) State any two ways in which filtration method is important at home.

- ✓ It helps in separating tea leaves from tea.
- ✓ It helps in separating fruit juice from seeds.
- ✓ It helps in preparing local salt from plant ash.
- ✓ It helps in separating water from small rocks.
- 43. (a) Name any **one** example of natural magnet.
 - ✓ Lodestone / magnetite / earth
 - (b) State any one way of preventing magnets from losing magnetism.
 - ✓ Painting magnets to prevent rusting.
 - ✓ Keeping magnets with iron keepers.
 - ✓ Keeping magnets away from heat.
 - Keeping magnets with unlike poles together.
 - Keeping magnets facing North South direction.
 - (c) Apart from electric bell, mention any **two** other devices that use electro magnets.
 - ✓ Electric alarms / sound amplifiers / radio speakers/ electric motors / electric sirens / Generators
- 44. (a) Mention any **one** vice in a deep litre house.
 - Egg eating / Feather pecking / cannibalism / egg biding
 Mnemonic: FECE
 - Reject: Toe pecking / vent pecking / skin pecking
 - (b) Give any **one** cause of poultry vice in a deep litres house.
 - Overcrowding of birds.
 - ✓ Poor ventilation in a poultry house.
 - ✓ Boredom among birds.
 - ✓ Shortage of feeds.
 - ✓ Lack of proteins in the diet.
 - (c) State any **two** ways of controlling poultry vices.
 - ✓ Hanging green vegetables in the coop.

- Regular feeding of birds.
- Providing enough space for birds.
- ✓ Proper stocking.
- 45. (a) Name the group of non flowering plants where fern belong.
 - ✓ Sporing bearing plants. Reject: Coniferous plants
 - (b) State one similarity between pine and cedar in the way they reproduce.
 - Both reproduce by means of seeds.
 - (c) Apart from pine and cedar, mention any **two** other plants that reproduce by means of seeds.
 - ✓ Fir / cypress / podo / ginkgo / cycad
- 46. You are provided with the following materials to carry out an experiment to show that soil contains water.

Dry saucepan, lump of soil, plate

Describe the steps you would follow.

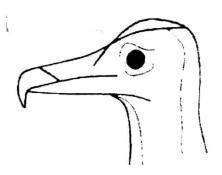
- (i) Put the lump of soil into the dry saucepan.
- (ii) Cover the dry saucepan using a plate.
- (iii) Heat the lump of soil in the dry saucepan for some time.
- (iv) Remove the plate and check the water droplets.
- 47. (a) Mention any **one** cattle disease caused by virus.
 - Rinder pest / Foot and mouth disease
 - (b) State any two ways of controlling viral diseases in cattle.
 - ✓ Through regular vaccination.
 - ✓ Through application of quarantine.
 - ✓ Through isolation of infected animals.
 - (c) State how isolation of infected animals prevent viral diseases in cattle.
 - ✓ It prevents close contact of infected animals with healthy ones.
- 48. (a) State any two dangers of teenage pregnancy to girls.
 - ✓ It leads to school dropouts.
 - ✓ It causes birth complications.

- ✓ It may lead to death due to attempted abortion.
- ✓ It leads to forced marriage.
- ✓ It leads to parental reject.
- ✓ It leads to obstructed labour.
- (b) Give any two ways adolescent girls can avoid teenage pregnancy.
 - ✓ Abstaining from pre-marital sex.
 - Avoid bad peer groups.
 - ✓ Avoid gifts from strangers.
 - Staying at school.
 - Educating adolescents about body growth and body changes.
 - ✓ Reporting cases of rape to concerned people.
- 49. The information below is designed by young farmers club to start a goat rearing project. Study and use it to answer questions that follow.

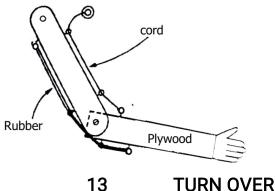
Activity	Item	Number	Estimated date
Construction	Shade	2	10/06/2025 up-to-
			date
Purchasing	Nannies	7	18/07/2025
Vaccination	Nannies	7	19/07/2025
Artificial insemination	Animals on heat	Animals on heat	18/07/2025 up to
			date

- (a) Give the collective name for that above information.
 - ✓ Work plan Reject: Record keeping / Breeding record
- (b) Give a reason why the club has no interest on Billy goats.
 - ✓ They are interested in artificial insemination.
- (c) State any one way in which artificial insemination is important in the above project.
 - ✓ Promotes cross breeding.
 - ✓ Prevent venereal diseases / hereditary diseases.
 - Control inbreeding.
- (d) In which way is the above information important when starting a poultry keeping business?

- ✓ Helps in time management.
- ✓ Helps in effective planning.
- ✓ Helps in budgeting.
- ✓ Helps in allocating resources.
- 50. (a) Name the germ that causes malaria.
 - ✓ Protozoa. Reject: Plasmodia / plasmodium
 - (b) In which way does each of the following help to prevent malaria?
 - (i) Draining stagnant water:
 - ✓ It destroys the breeding places for mosquitoes.
 - (ii) Sleeping under treated mosquito net:
 - ✓ It helps to prevent bites from female anopheles mosquitoes.
 - (c) Give a reason why male anopheles mosquitoes do not transmit malaria to people.
 - ✓ They do not feed on human blood.
- 51. (a) State what is meant by the term weeds.
 - ✓ Weeds are unwanted plants in the garden.
 - ✓ Reject: weeds are plants that grow in a place where they are not needed.
 - (b) Name the crop growing practice which reduces the weight of the plant.
 - ✓ Pruning.
 - (c) Apart from panga and scateurs, mention two other garden tools used for pruning crops in the garden.
 - ✓ Billhook
 - Pruning saw
- 52. The diagram below shows a beak of the bird study and use it to answer the questions that follow.



- (a) Name the group of birds which have the beak shown above.
 - Scavenger birds.
- Give any two examples of birds which have the beak shown above. (b)
 - ✓ Vulture
 - ✓ Crow
 - ✓ Marabou stork
- State how the birds with such a beak help to clean the environment. (c)
 - ✓ By feeding on leftover flesh / abandoned flesh.
- 53. (a) Name any one method of harvesting honey.
 - ✓ Modern method
 - Traditional method.
 - (b) State the importance of the following equipment when harvesting honey.
 - (i) smoker:
 - ✓ It is used to produce smoke in order to scare and paralyze bees.
 - ✓ It is used to produce smoke which scare bees.
 - (ii) knife:
 - ✓ It is used for cutting combs with honey from the hive.
 - (c) Mention any one reason why harvesting of honey should not be done using fire.
 - ✓ Fire kills bees reducing their population.
 - Smoke from fire contaminates honey.
 - ✓ It reduces honey harvesting by killing worker bees.
- The diagram below shows a model of the human arm. Study and use it to 54. answer the questions that follow.



- (a) Identify the body muscle represented by;
 - (i) The cord:
 - ✓ Biceps
 - (ii) The rubber:
 - ✓ Triceps
- (b) Name the type of human body muscles represented in the modal above.
 - ✓ Voluntary muscles.
- (c) State what happens to the cord when the fore plywood is raised.
 - ✓ The cord will contract / The cord contracts
- 55. (a) State the units for measuring rainfall.
 - ✓ Millimetres (MM)
 - (b) Give a reason why rainfall is measured in the above units.
 - ✓ To find how deep rain water has entered the soil.
 - (c) Mention any two components of a rain gauge.
 - ✓ Funnel / measuring cylinder / bottle

END