



**THE HIGHWAY EXAMINATIONS**  
**PRIMARY SEVEN QUALITY ASSESSMENT**  
**2025**  
**INTEGRATED SCIENCE**

Time allowed: 2 hours 15 minutes

Random No.						Personal No.		

**Candidate's name:** .....

**Candidate's signature:** .....

**District ID No:**

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**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 **15 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.

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

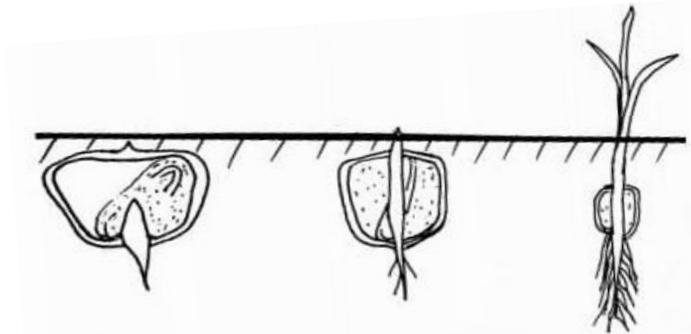
## SECTION A: 40 MARKS

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.  
.....
2. Apart from mechanical method, state any **one** other method of storing sound.  
.....
3. Mention the source of energy used by plants in the process of photosynthesis.  
.....
4. Name the type of teeth which is missing in the milk set of teeth.  
.....
5. State any **one** way of keeping the circulatory system in a good working condition.  
.....  
.....

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.  
.....
7. Name the group of flowering plant to which the above belong.  
.....

8. State how canine teeth are able to tear food.

.....

9. Name any **one** example of root tubers.

.....

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.

.....

.....



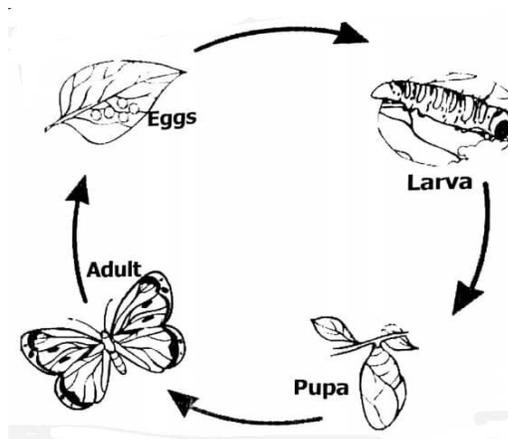
11. Give a reason why a boat floats on water.

.....

12. Identify the type of mechanical energy possessed by a passenger seated in a moving vehicle.

.....

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



13. Name the type of lifecycle shown above.

.....

14. Give a reason to support your answer above.

.....

15. State what causes marasmus.  
.....
16. In which way can a person care for his / her ears.  
.....  
.....
17. State any **one** way in which earthworms are important to crop farmers.  
.....
18. State how hookworms enter the body.  
.....
19. Mention any **one** common accident at home.  
.....
20. Give a reason why farmers carryout docking.  
.....  
.....
21. Mention any **one** type of drugs.   
.....
22. Name the class of food to which beans belong.  
.....
23. State the importance of white blood cells to the circulatory system.  
.....
24. State any **one** way feeding on roughages help to prevent constipation.  
.....  
.....
25. Mention any **one** material which is made of clay soil.  
.....
26. State any **one** way vectors spread germs.  
.....
27. State the importance of sunlight during photosynthesis.  
.....

28. Identify any **one** type of 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.

.....

30. Use letter **B** to show the part that produces pollen grains.

.....



31. Write down any **one** by-product of respiration.

.....

32. Give a reason why it is advisable to sneeze in a handkerchief when in public.

.....

33. State any **one** way in which animals can be used as energy resource.

.....

34. State **one** way in which the human skeleton is useful to the circulatory system.

.....

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.

.....

36. State the element of weather that requires people to use the above item.

.....

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

.....

.....

38. Name the element of primary health care which promotes quick recovery of the casualty.

.....

39. State the importance of gills to a mushroom.

.....

.....

40. Give any **one** way in which a blacksmith use heat.

.....

.....

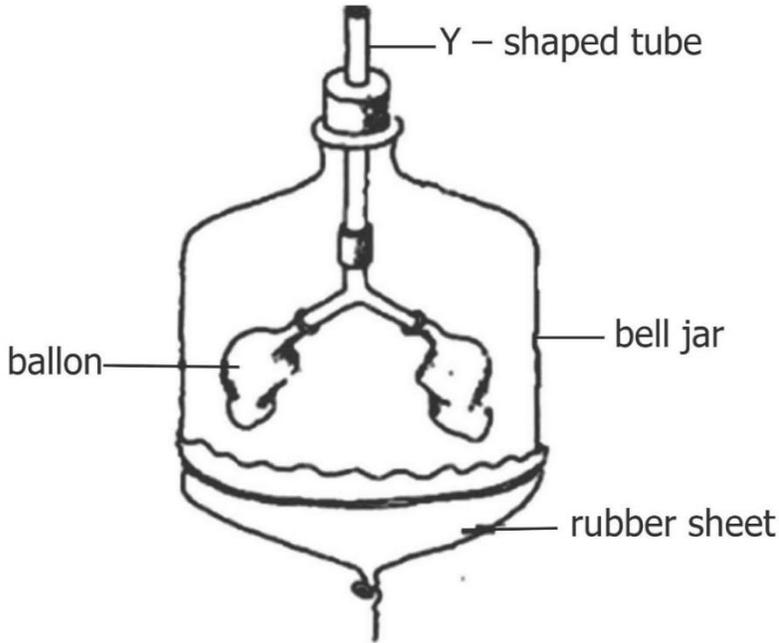


**SECTION B: 60 MARKS**

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) State what does the straw represent in the above?

.....

- (b) State what happens to the balloon when breathing in.

.....

.....

- (c) Explain how you can demonstrate breathing in in the above experiment.

(2 marks)

.....

.....

.....

42. (a) Mention any **two** activities at home that requires the use of filtration method.  
 (i) .....  
 (ii) .....
- (b) State any **two** ways in which filtration method is important at home.  
 (i) .....  
 (ii) .....
43. (a) Name any **one** example of natural magnet.  
 .....
- (b) State any **one** way of preventing magnets from losing magnetism.  
 .....
- (c) Apart from electric bell, mention any two other devices that use electromagnets.  
 (i) .....  
 (ii) .....
- 
44. (a) Mention any **one** vice in a deep litre house.  
 .....
- (b) Give any **one** cause of poultry vice in a deep litres house.  
 .....
- (c) State any **two** ways of controlling poultry vices.  
 (i) .....  
 (ii) .....
45. (a) Name the group of non – flowering plants where fern belong.  
 .....
- (b) State **one** similarity between pine and cedar in the way they reproduce.  
 .....  
 .....

(c) Apart from pine and cedar, mention any **two** other plants that reproduce by means of seeds.

(i) .....

(ii) .....

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) .....

.....

(ii) .....

.....

(iii) .....

.....

(iv) .....

.....



47. (a) Mention any **one** cattle disease caused by virus.

.....

(b) State any **two** ways of controlling viral diseases in cattle.

(i) .....

(ii) .....

(c) State how isolation of infected animals prevent viral diseases in cattle.

.....

.....

48. (a) State any **two** dangers of teenage pregnancy to girls.
- (i) .....
- (ii) .....
- (b) Give any **two** ways adolescent girls can avoid teenage pregnancy.
- (i) .....
- (ii) .....

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.
- .....
- (b) Give a reason why the club has no interest on Billy goats.
- .....
- (c) State any **one** way in which artificial insemination is important in the above project.
- .....
- .....

(d) In which way is the above information important when starting a poultry keeping business?

.....



50. (a) Name the germ that causes malaria.

.....

(b) In which way does each of the following help to prevent malaria?

(i) Draining stagnant water.

.....

.....

(ii) Sleeping under treated mosquito net:

.....

.....

(c) Give a reason why male anopheles mosquitoes do not transmit malaria to people.

.....

.....

51. (a) State what is meant by the term weeds.

.....

.....

(b) Name the crop growing practice which reduces the weight of the plant.

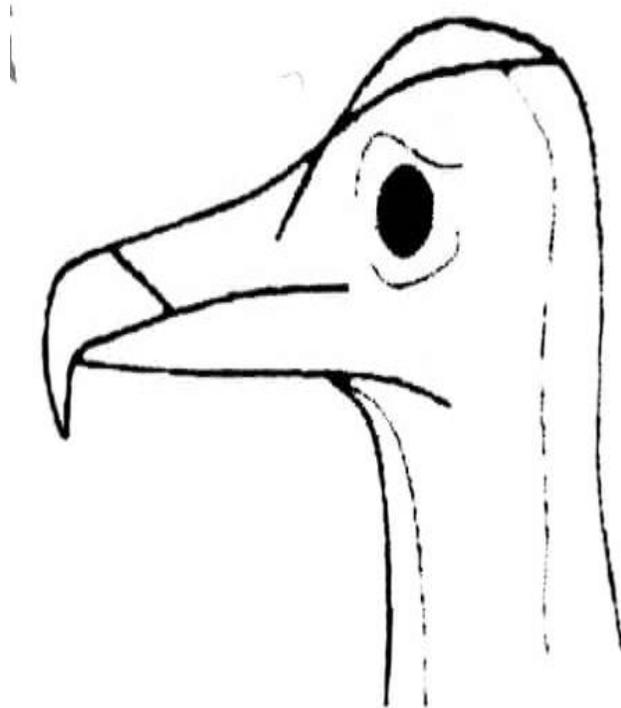
.....

(c) Apart from panga and secateurs, mention two other garden tools used for pruning crops in the garden.

(i) .....

(ii) .....

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.

.....

(b) Give any **two** examples of birds which have the beak shown above.

(i) .....

(ii) .....

(c) State how the birds with such a beak help to clean the environment.

.....  
.....



53. (a) Name any **one** method of harvesting honey.

.....

(b) State the importance of the following equipment when harvesting honey.

(i) smoker:

.....  
.....

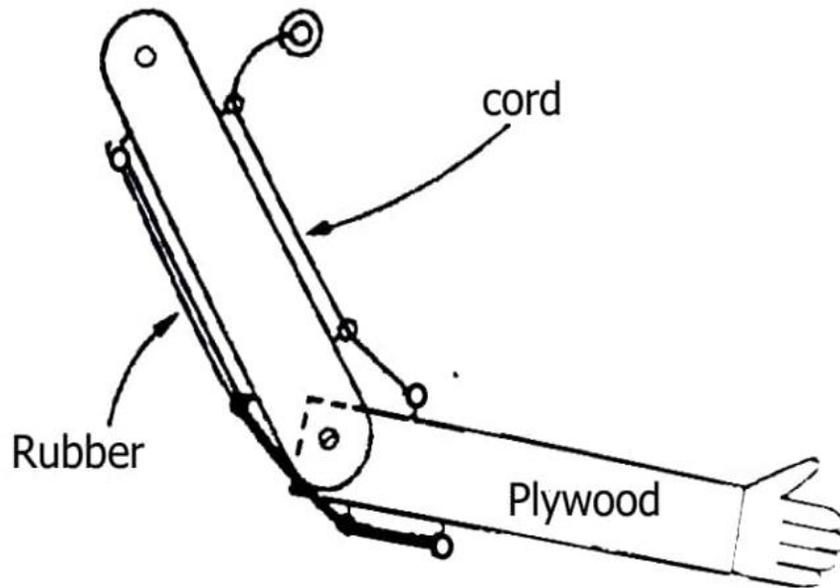
(ii) knife:

.....  
.....

(c) Mention any **one** reason why harvesting of honey should not be done using fire.

.....

54. The diagram below shows a model of the human arm. Study and use it to answer the questions that follow.



(a) Identify the body muscle represented by;

(i) The cord:

.....

(ii) The rubber:

.....

(b) Name the type of human body muscles are represented in the modal above.

.....

(c) State what happens to the cord when the fore plywood is raised.

.....



55. (a) State the units for measuring rainfall.

.....

(b) Give a reason why rainfall is measured in the above units.

.....

.....

(c) Mention any **two** components of a rain gauge.

(i) .....

(ii) .....

