E-LEARN PLE 2025 SCIENCE ANALYSIS

1. Name the type of soil which is good for the growing of crops.

PRE PLE SET 3 Question 38:

Briefly explain why loam soil is the best soil for crop growing.

2. Give the function of the stigma of a flower.

PRE PLE SET 2 Question 42 (b)

State what happens when pollen grains land on stigma.

This was the most direct question to the function of the stigma.

3. State any **one** way of controlling heartburn in humans.

4. State any **one** way in which slashing of bushes around a home helps to control diseases.

5. Mention any **one** way in which planting of trees improves the quality of air in the environment.

PRE PLE SET 3 Question 24:

Explain how plants purify air in the environment.

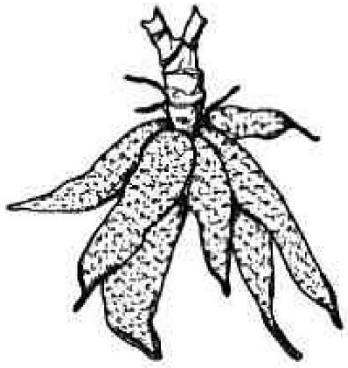
PRE PLE SET 9 Question 54(b)

Briefly explain how the process of photosynthesis helps to purify air.

6. Give any **one** way that can be used to prevent the spread of tuberculosis in a community.

7. State any **one** reason why it is not good to breathe through the mouth.

The diagram below shows part of a root tuber crop. Use it to answer questions **8** and **9**.



8. Name any **one** method of harvesting the root tuber crop.

9. Give any **one** reason why the above root tuber crop should be preserved after harvesting.

PRE PLE SET 6 QUESTION 52(a)

Give a reason why it is not advisable to store fresh tuber crops in a sack

PRE PLE SET 6 Question 52(c)

Identify any two importance of preserving tuber crops in our communities

10. State any **one** way through which breast feeding prevents diseases in babies.

PRE PLE SET 4 Question 49(a)

Mention the way in which breastfeeding helps to boost the baby's immunity.

PRE PLE SET 4 Question 49(b)

Give a reason why breast milk is considered a complete food for a baby.

11. Give any **one** characteristic of bacteria.

12. Mention the use of a barometer in a weather station.

This question appeared in many of our SST SETS

13. State any **one** way through which the giving of feeds to a cow during milking helps to stimulate milk let down.

PRE PLE SET 5 Question 35

State one cause of milk hold-up in cattle.

Under the answers we gave for this question, was stress factors like fear or a change in routine can inhibit milk let-down. Therefore, a calm and positive routine such as feeding, would help stimulate it

14. Give **one** way in which the wearing of tight-fitting shorts helps in controlling thread worm infestation.

15. Name the part of the human male reproductive system that stores sperm cells.

PRE MOCK 3 Question 3:

Name the part of the human reproductive system that stores sperms.

PRE PLE SET 5 Question 55(a)

Name part marked W. [on a diagram of the male reproductive system, we asked to name the same part that stores sperm cells]

16. Give any **one** way of conserving living organisms in the soil.

PRE MOCK 1 Question 50 (a)

Mention two reasons why local crop farmers would prefer using natural fertilizers to artificial ones.

Under the answers given was that: Natural fertilizers support the life soil organisms that improve soil fertility while artificial fertilizers do not.

(This directly states that using natural fertilizers (like compost and manure) helps to conserve and support living organisms in the soil).

17. State any **one** effect of weather on the pitch of sound.

NATIONAL SPECIAL MOCK Question 22

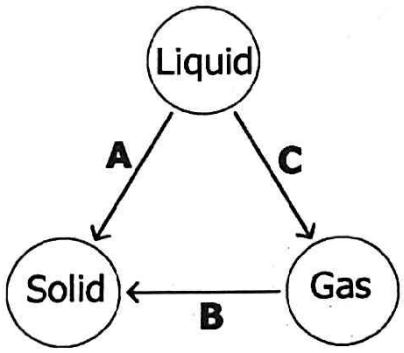
State any one way lower temperatures at night affect sound energy.

This describes an effect of temperature (a weather element) on how sound travels and is perceived, which affects its clarity and loudness over distance).

PRE PLE SET 3 Question 14

Explain how the frequency affects the pitch of sound.

The diagram below shows the physical changes that take place in the states of matter. Use it to answer questions **18** and **19**.



18. Name the physical change labelled **A**.

19. State any **one** way in which physical change labelled C is important to plants.

20. Apart from being a drink, give any **one** other use of alcohol.

21. Name any **one** exotic breed of goats kept for the same purpose as Friesian cows.

22. State any **one** way in which flowers planted in a school compound are important.

This question appeared in some of our SST sets

23. Give any **one** way of keeping the human body muscles in good working condition.

P.7 MID TERM 1 EXAMS 2025 Question 47(d)

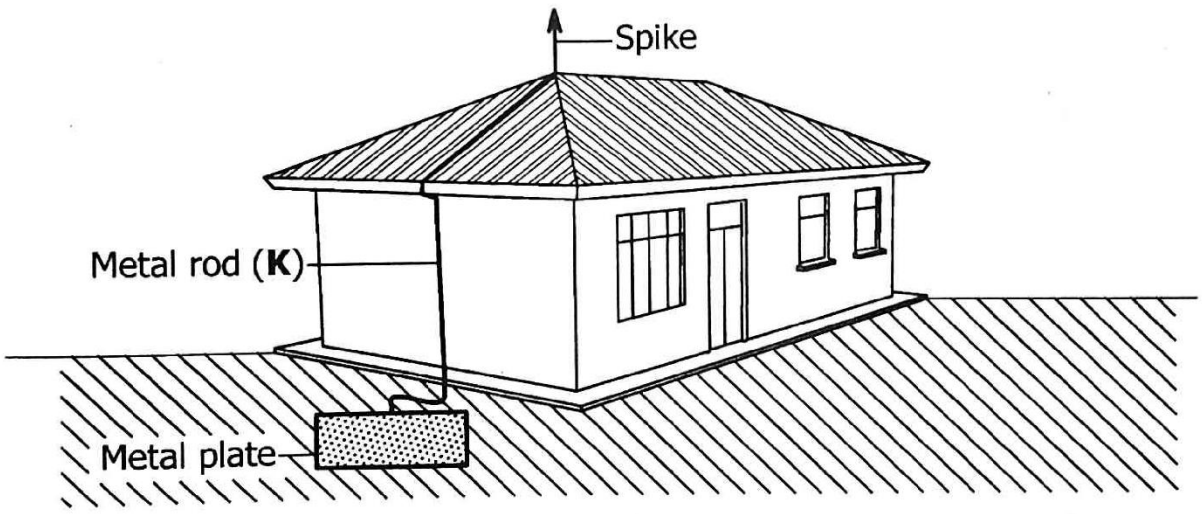
Give one way of keeping the skeletal system in proper working condition.

24. Mention any **one** method used to prepare food at home.

PRE PLE SET 3 Question 50(c)

Give one foodstuff prepared by:
(i) Mingling – Posho
(ii) Frying – Fish, Irish potato, Meat

The diagram below shows a lightning conductor on a building. Use it to answer questions **25** and **26**.



25. Name the material used to make the metal rod labelled **K**.

26. State **one** way in which the above lightning conductor helps to control damage on buildings.

PRE PLE FINAL SET Question 33

State the main reason why buildings having lightning conductors do not get struck during lightning and thunder storms.

27. Give **one** reason why boiled water should be filtered before drinking.

28. Mention any **one** way in which wind is used as a resource.

PRE MOCK SET 4 Question 21

Give one way in which wind is used as an energy resource.

PRE PLE FINAL SET Question 51(c)(ii)

State the use of the following energy resources in the environment. (ii) Wind

PRE PLE FINAL SET Question 13.

Give one way in which wind helps in drying clothes.

29. State any **one** way in which the strength of a magnet can be maintained.

PRE MOCK SET ONE question 54 (c)
State one way of increasing the strength of magnets

PRE PLE FINAL SET Question 52 (c)

State one way of keeping a pair of magnets safe

PRE MOCK SET 5 Question 5.

Give a reason why is it not a good practice to keep magnets in a moist place.

30. Give any **one** factor a health worker considers when prescribing drugs for a patient.

31. Identify the component of blood that transports waste products in the human body.

32. Apart from being less dense, state any **one** other factor that makes an object float on a liquid.

PRE PLE SET 2 question 52(c)

State the condition that makes a lactometer less dense hence floating in milk.

PRE MOCK 04 QUESTION 33

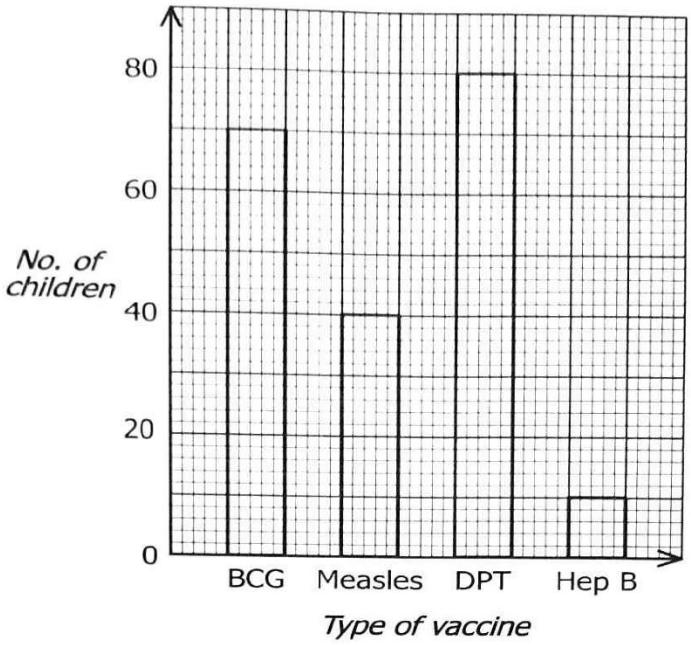
State the reason why cooking oil floats on water.

33. State any **one** way in which animals benefit from moving in groups.

34. Name any **one** feature you can use to identify combs with young bees in a hive.

35. State the reason why sound travels fastest in solids.

The bar graph below shows vaccines that were received by children at a health centre on one Tuesday. Use it to answer questions **36** and **37**.



36. Identify any **one** disease for which the highest number of children received the vaccine.

WELCOME TO P.7 QUESTION 19

Name the vaccine immunized against the disease characterized by stiffness of muscles.

DPT vaccine

37. Determine the number of children born on that Tuesday.

PRE PLE SET 07 QUESTION 43

The table below shows vaccines and the right dates administered to a child. Study it carefully and answer the questions that follow.

Vaccines	1	2	3
BCG vaccine	12/08/2024	Completed	Completed
Polio vaccine	12/08/2024	16/12/2024	12/01/2025
DPT vaccine	12/09/2024	16/12/2024	12/01/2025
Measles vaccine	12/06/2025	Completed	completed

(a) State the date of birth of the above child.

The child was born on 12/08/2024.

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

BCG and Polio vaccines are given to babies at birth.

(c) State the reason why immunization was completed on 12/06/2025.

The measles vaccine is administered at the age of 9 months.

38. State the reason why a balloon filled with air bursts when exposed to sunshine.

PRE MOCK SET TWO QUESTION 23

State the reason why a balloon full of air bursts when left in the sunshine for some time

39. Give any **one** practice of caring for the health of the brain in humans.

40. State any **one** way through which establishment of factories in a community can be dangerous to water sources.

PRE PLE SET 6 (question 55)

Check the diagram about environmental pollution in

This diagram clearly demonstrated the effect factories to water sources.

SECTION A: 40 MARKS

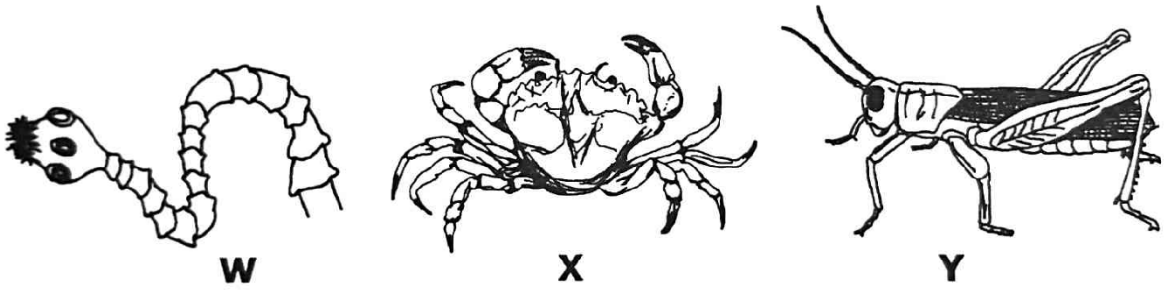
Answer **all** *questions in this section*

Questions **41** *to* **55** *carry four marks each*

41. (a) Give any **two** social changes that take place at puberty.

(b) Mention any **two** ways through which an adolescent can manage the social changes.

42. The diagrams below show the animals **W**, **X** and **Y** that belong to three different groups of invertebrates. Use them to answer questions that follow.



W **X** **Y**

(a) Identify the group of invertebrates to which animal labelled X belongs.

WELCOME TO P.7 QUESTION 7

To which group of invertebrates does a crab belong?

PRE PLE SET 3 question 21

Name the group of invertebrates with segmented bodies and jointed legs.

(b) Apart from having no backbone, state any **one** other way animals W and Y are similar in their body structures.

PRE PLE SET 9 question 8.

Mention one characteristic common to all arthropods.

(c) State any **two** benefits of animal Y to humans.

43. (a) Give the importance of each of the following in the human diet:

(i) Roughage

PRE PLE SET 4 question 18.

State two important uses of roughage in the digestive system of a human.

WELCOME TO P.7 QUESTION 10

Name the digestive disorder caused by lack of roughage in our diet.

(ii) Water

(b) Give any **two** ways in which food taboos are important to people in some communities.

PRE MOCK SET 3 question 2.

Give one advantage of food taboos in your community.

PRE PLE SET 3 question 45 (c)

State one environmental importance of food taboos.

44. In the table below, **A** shows the elements of Primary Health Care (PHC) while **B** shows some of the problems that may result from failure to practice the elements of PHC.

A	**B**
Immunisation Family planning Water and sanitation Oral health	Typhoid fever Constipation Halitosis Hepatitis B Maternal anaemia

Match correctly the problems in **B** with the elements of PHC in A in spaces provided below.

Immunisation
Family planning
Water and sanitation
Oral health

WELCOME TO P.7 Question 53
Water and sanitation as an element of PHC
Pre ple set 5 Question 21
Family planning as an element of PHC
Pre MOCK 4 Question 55(d)
Hepatitis B and its prevention

45. (a) State the benefit of the:
(i) apiary to the coffee plantation
(ii) goat unit to the coffee plantation
(b) Mention any **one** danger of the apiary to the goat unit

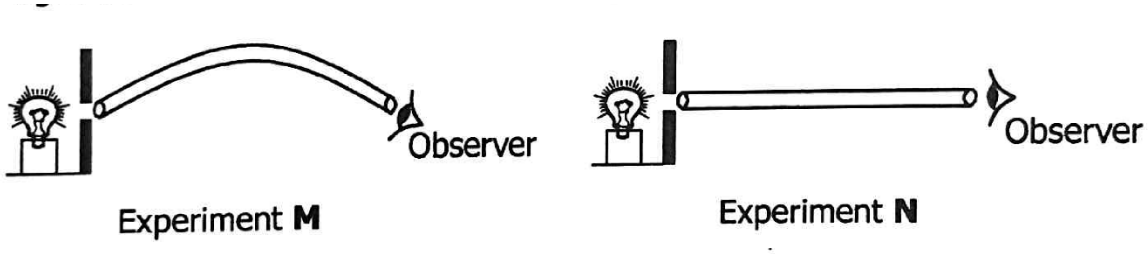
Pre MOCK set 2 Question 26

Give any one disadvantage of mixed farming.

(c) Give any **one** way in which the farmer can control goats from disturbing the apiary

Pre MOCK set 5 Question 5
Ways of protecting an apiary

46. The diagrams below experiments that were carried out on how light travels. Use them to answer questions that follow.



Experiment **M** Experiment **N**

(a) Identify the experiment in which the observer was able to see the light
Pre PLE FINAL SET Question 44
Describe an experiment to show that light travels in a straight line
(b) State the principle of light demonstrated in the experiments above
Pre PLE FINAL SET Question 44
Describe an experiment to show that light travels in a straight line
(b) Explain how the principle in (b) above results in the formation of shadows
Pre mock SET 2 Question 7
Give a reason why a shadow is formed when a person stands in the sun.
Pre PLE SET 4 Question 38
State the way in which umbra shadows are formed.

47. The diagram below shows part of the process of making charcoal. Use it to answer questions that follow.



(a) State the reason for covering the wood with soil in the above process

Pre PLE SET 3 Question 44

Steps of making charcoal

(b) State any **one** danger of the above activity to the environment

Pre PLE FINAL ITEM Question 47(b)

State two disadvantages of using charcoal as an energy resource in the environment.

(c) Identify any **two** ways the above activity can be controlled in a community.

Pre MOCK SET 3 Question 41(c)

Give two ways of controlling charcoal making in a community.

48. (a) State any **two** reasons why rubbish from our homes should be sorted before disposing it to gardens

PRE MOCK TWO – Question 6

State the reason why it is important to burn or bury rubbish properly.

(b) Mention any **two** ways of keeping yourself safe while sorting rubbish at home

49. (a) State any **two** ways you can use to control common sicknesses at home

PRE PLE SET 7 – Question 35

State one way how a family can help its members manage falling sick

Pre ple SET 9 Question 2

State one way in which proper waste disposal is important in a home.

Pre ple SET 8 Question 25

State one way children can prevent diarrhoea at home.

(b) Give any **two** ways through which juvenile delinquency can be controlled in a society

PRE PLE SET 9 – Question 47(c)

State any two roles played by the community to control antisocial behaviour.

50. (a) Name **one** material excreted by the lungs in humans

PRE PLE SET 2 Question 22

Give a reason why there is more carbon dioxide in exhaled air.

(b) State **one** way through which shivering helps to regulate body temperature

PLE SET 9 – Question 52(b),

shivering is mentioned as a method used by the human skin to control body temperature.

(c) Explain how each of the following practices helps in caring for the skin:

(i) Wearing clean loose clothes

(ii) Smearing with Vaseline

51. (a) State any **two** uses of the sun as an energy resource

PRE PLE SET 7 – Question 17

State the reason why the sun is regarded to be the main natural source of heat in the environment.

PRE PLE SET 4 – Question 50(d)

State one importance of heat transfer by radiation in the environment.

(b) State any **one** reason why fire extinguishers are commonly painted red

(c) State **one** way in which soil is useful in putting out fire

PRE PLE SET 2 – Question 35

Give any one example of an item used to stop petrol fire.

52. (a) Give any **one** example of a good conductor of heat

PRE PLE SET 4 – Question 50(b)

Question: Give a reason to support your answer in (a) above(it as a diagram comparing heart transfer in metals and plastics).

Answer: Metals are good conductors of heat.

(b) Mention any **one** way in which heat transfer by radiation is important to:

(i) plants

PRE PLE SET 1 – Question 4

Mention one role of sunlight during the process of making glucose in plants.

PRE PLE SET 4 – Question 26

Write down the importance of sunlight during the process of photosynthesis.

(ii) humans

PRE PLE SET 4 – Question 50(d)

State one importance of heat transfer by radiation in the environment.

(c) Explain how the silvery walls of a thermos flask keep the hot liquid in the flask hot

PRE PLE SET 2 – Question 45(c)

State how silvery walls of a thermos flask is adapted to its function.

PRE PLE SET 2 – Question 45(b)

Identify the part of a thermos flask that prevents heat loss or gain by Radiation

PRE PLE SET 9 – Question 9

State the part of a vacuum flask that prevent heat loss or gain by radiation.

53. (a) State the reason why a person suffering from HIV/AIDS is easily attacked by other diseases

(b) Mention any **one** effect of HIV/AIDS on a community.

PRE PLE SET 9 Question 49(a)

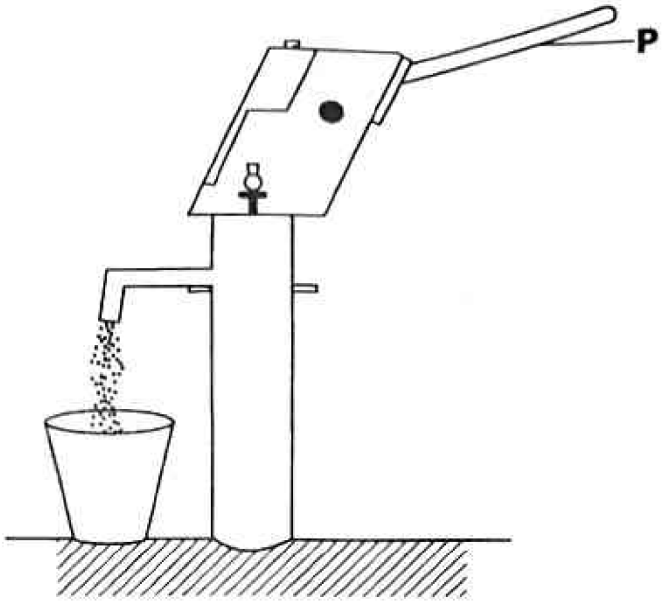
Mention two effects of HIV/AIDS to the economy of Uganda.

(c) Give any **two** ways of caring for a person living with HIV/AIDS

This qn appeared twice in our SST papers (RE PART)

Ways of caring for people living with HIV/AIDS

54. The diagram below is of a simple machine. Use it to answer questions that follow.



(a) Name the class of levers to which the above machine belongs

We set many questions under simple machines and their examples

(b) Using an arrow, show the direction of the load when effort is applied to the part labelled P

(c) State any **two** ways through which the efficiency of the above simple machine can be increased

PRE PLE SET 3 Question 46(d)

Give one factor that affects the efficiency of pulleys.

55. (a) Give any **one** cause of burns at home

PRE PLE SET 8 Question 47(b)

Give any one reason for putting out fire after cooking food.

PRE PLE SET 8 Question 13

Name the type of injury got by a person who steps on hot ash.

(b) Mention any **one** way in which cuts can be prevented in a school

(c) Mention any **two** responsibilities of a good first aider

END

MESSAGE FROM THE CEO

The Science analysis presented above provides a clear proof that E-Learn Examinations Board delivered highly accurate, syllabus-driven Science assessments throughout the PLE 2025 preparation year.

Our Science examinations were intentionally structured to assess knowledge, understanding, application and interpretation as prescribed in the Primary Science syllabus. Special attention was given to practical scenarios, everyday science and learner-friendly language elements that were clearly mirrored in the national examination.

This alignment confirms that our examiners effectively anticipated examinable areas while remaining faithful to syllabus objectives and learner ability levels.

It also reflects our continuous investment in moderation and diagram accuracy to produce clear scientific presentation from our first to the final set of 2025.

E-Learn remains committed to promoting scientific literacy, curiosity and critical thinking among learners. We sincerely appreciate the contribution of our Science examination team, partner schools and educators whose feedback continues to strengthen our work.

We are honored to have contributed to your candidates success.



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