

# THE E-LEARN EXAMINATIONS BOARD

P.4 END OF TERM ONE

2024

## INTEGRATED SCIENCE GUIDE

*Time Allowed: 2 hours 15 minutes*



Index No.	EMIS No.					Personal No.		

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**Read the following instructions carefully:**

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**.  
Section **A** has **40** questions and section **B** has **15** questions. The paper has **12** printed pages altogether.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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 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 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		

## SECTION A: 40 MARKS

Questions **1** to **40** carry one mark each.

1. What name is given to a young plant?

✓ **Seedling**

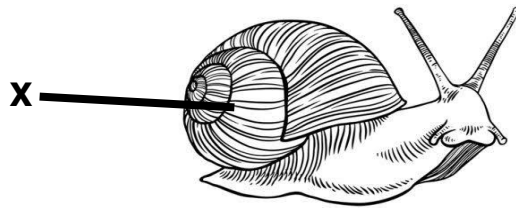
2. In which way is germination similar to rusting?

✓ **Both require oxygen and moisture to take place.**

3. Why do some flowers produce scent?

✓ **To attract pollinators**

The diagram below shows an animal.



4. Name the animal above.

✓ **Snail/Water snail**

5. How is part X useful to the animal?

✓ **For protection**

6. State **one** solute used to make ORS.

✓ **Salt/Sugar**

7. Why is it important for you to feed on food rich in carbohydrates?

✓ **To get energy**

✓ **To prevent marasmus**

8. How are roots useful to a cassava plant?

✓ **Roots store food for cassava plant**

9. Mention **one** non living component of the environment.

✓ **Air/Water/Soil/Temperature**

10. Why do green plants need carbon dioxide during the day?

✓ **Carbon dioxide provides carbon atom**

11. Name **one** example of a rodent pest.

✓ **Squirrel // rats // moles // mice**

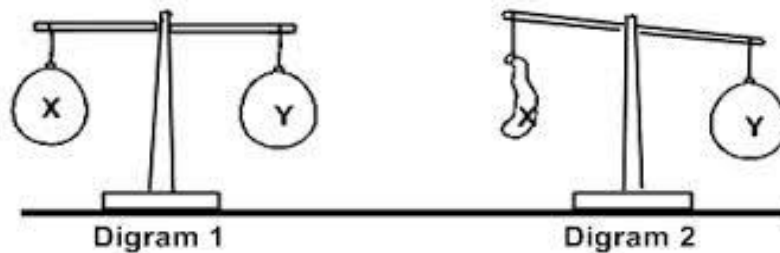
12. Mention **one** agent of soil erosion.

✓ **Wind/Flowing water/Humans**

13. What term is refers to the smallest unit of a living thing?

✓ **A cell**

14. Which property of air is illustrated below?



✓ **Air has weight.**

15. Mention **one** way you can help your parent at home.

✓ **By sweeping the house**

✓ **By Mopping the house**

16. Which weather instrument measures the amount of rainfall received in an area?

✓ **Rain gauge**

17. Identify **one** accident that can be got near fire places.

✓ **Burns/Scalds**

18. What is the use of a kennel at home?

✓ **A kennel is a habitat of a dog**

19. Why is a cockroach regarded as a vector?

✓ **A cockroach spreads germs**

✓ **A cockroach spreads poliomyelitis**

20. How are ferns similar to mosses?

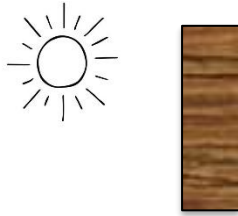
✓ **Both ferns and mosses reproduce by means of spores**

✓ **Both are non-flowering plants**

21. Give **one** way of preventing bad smell from latrines.

✓ **By smoking**

22. Draw the shadow of the objects below.



23. How are cats useful at home?

- ✓ **Cats eat rats**
- ✓ **Cats chase away rats**

24. Mention **one** factor that affects the transpiration rate in plants.

- ✓ **Temperature/Size of the leaf/Humidity/Wind/Light intensity**

25. Apart from hearing, give the other function of the human ear.

- ✓ **Human ear helps in body balance**

26. Why should babies be fed on foods rich in proteins?

- ✓ **To prevent kwashiorkor**

27. Which part of a fish is compared to the lungs of man?

- ✓ **The gills**

28. What does A stands for in PIASCY?

- ✓ **Acquired**

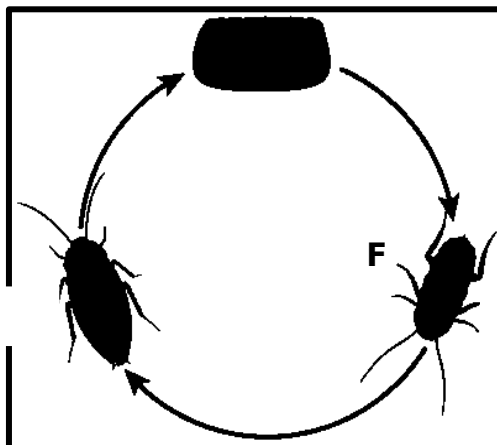
29. Give **one** example of a wild animal

- ✓ **Lions/Snakes/zebra/Elephants**

30. How is sand soil useful to people?

- ✓ **Sand soil is used for constructing houses.**

Below is a life cycle of a cockroach.



31. Name stage F.

✓ **Nymph**

32. Identify **one** basic need of man.

✓ **Food/Water/Health care/Clothing**

33. State **one** way you can care for your skin.

✓ **By regular bathing using clean water and soap**

✓ **Avoid playing using sharp objects like knives or needles**

34. Which characteristic of living things causes increase in size?

✓ **growth**

35. Why are peas and soya bean called leguminous crops?

✓ **They have root nodules**

36. Apart from the sun, mention **one** other natural source of light.

✓ **Fire flies**

37. What do we call a mixture of gases?

✓ **Air**

38. Why is an aeroplane not regarded a living thing?

✓ **An aeroplane does not carry out life processes eg growth, respiration, movement, responding to stimuli etc**

39. The diagram below shows sunglasses. In which type of weather are they used?



✓ **Sunny weather**

40. Mention **one** domestic animal that feeds on grass.

✓ **Goats**

### **SECTION B (60 MARKS)**

41a) What is a crop pest?

✓ **A crop pest is an organism which destroys farmers' crops in the garden**

b) Mention any **two** crop pests you know.

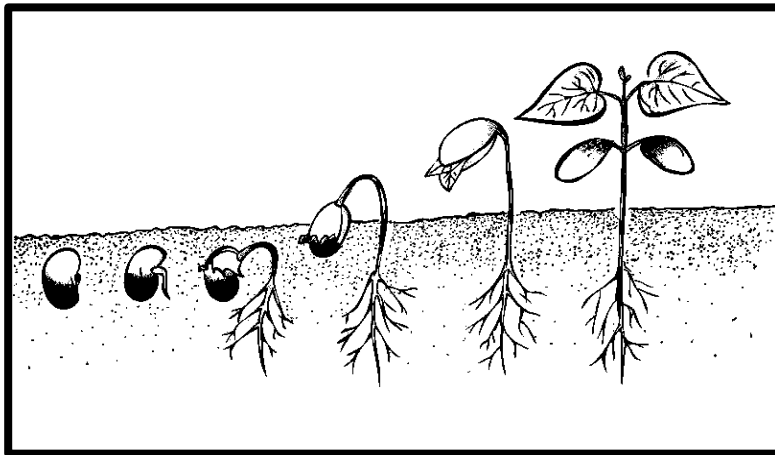
✓ **Birds**

- ✓ **Monkeys**
- ✓ **Squirrels**
- ✓ **Mole rats**
- ✓ **bats**

c) State **one** effect of pests to crops.

- ✓ **Pests reduce qualities of the crop yields**
- ✓ **They also cause food insecurity to the farmers**
- ✓ **They cause financial loss on the farm**
- ✓ **Some pests act as vectors for plant diseases**

42. The diagram below shows a type of germination.



a) Name the type of germination shown above.

- ✓ **Epigeal germination**

b) Mention any **two** crops with the above type of germination.

- ✓ **Beans/Soya beans/Sunflowers/Ground nuts**

c) What type of leaf venation will the above crops develop?

- ✓ **Network leaf venation**

43. Primary Four children, mixed eight levelled teaspoon of sugar and one levelled teaspoon of salt in a 1litre of cool boiled water and stirred until all the sugar and salt dissolved.

a) In the solution made, identify the;

- i) Solute

✓ **Sugar/Salt**

ii) Solvent

✓ **Water**

b) Which condition is treated using the above solution?

✓ **Dehydration**

c) Name the solution formed.

✓ **Sugar salt solution/Oral rehydration solution (ORS)**

44. Match correctly.

List A

List B

Wind vane      amount of rainfall

Barometer      speed of wind

Rain gauge      amount of air pressure

Anemometer      direction of wind

i)      Wind vane.      **Direction of wind**

ii)      Barometer      **Amount of air pressure**

iii)      Rain gauge      **Amount of rainfall**

iv)      Anemometer      **Speed of wind**

45a) What term refers to factors that lead to soil erosion?

✓ **Erosion agents/Agents of soil erosion**

b) Mention any **two** cause of soil erosion.

✓ **Wind/Flowing water/Human influence/Tillage**

c) Name **one** type of soil erosion.

✓ **Rill erosion**

46.a) Give **one** reason why cows are called domestic animal.

✓ **Cows are reared at home for purposes**

b) Mention any **two** products got from cows.

✓ **Milk/Meat/Hides/Horns/Hooves**

c) State **one** way you can care for your cow.

- ✓ **By treating the sick cows**
- ✓ **By feeding the cows or grazing**
- ✓ **By constructing Krall for a cow**

47. A family feeds on the following foodstuff; millet, beans, vegetables, fruits

a) Which food stuff contains vitamins?

- ✓ **Vegetables/Fruits**

b) Why are beans included in the diet?

- ✓ **Beans provide proteins/Source of proteins**

c) Which food stuff provides the family with carbohydrates?

- ✓ **Millet**

d) Why should you regard the above meal a balanced diet?

48. Mention the garden tool used for;

i) Transplanting seedling

- ✓ **A trowel**

ii) Turning manure

- ✓ **Garden fork/Manure fork**

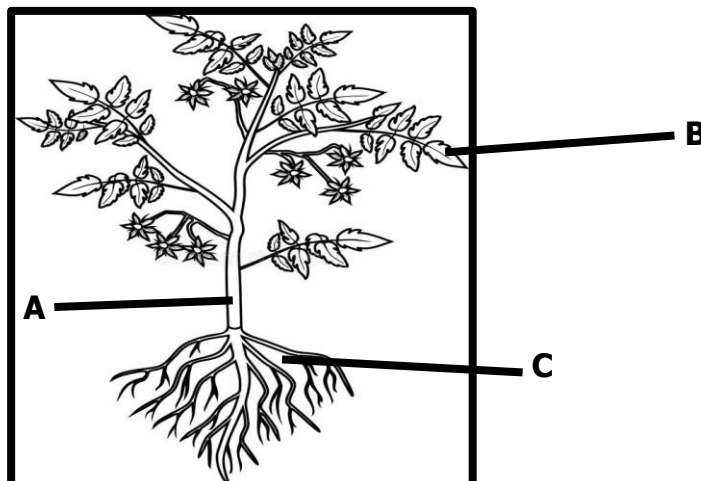
iii) Weeding

- ✓ **Hand weeding/Hand hoe**

iv) cutting big trees

- ✓ **Chainsaw/an axe/pruning jaw**

49. The diagram below is showing parts a flowering plant, use it to answer the questions that follow.





a) Name the parts marked.

i) A – **stem**

ii) C – **roots**

b) State **one** function of part **B** on a plant.

- ✓ **Used for breathing // they help in transpiration.**
- ✓ **Some leaves store food for the plant.**
- ✓ **Some leaves are used for reproduction. // make food for the plant.**

50. Write the 4F's in full.

- ✓ **Faeces // Flies // Food // Fingers**

51a) What term refers to a collection of materials used in giving first Aid?

- ✓ **First aid kit**

b) Which item of the first Aid box is used to;

i) disinfect or kill germs on wounds

- ✓ **Surgical spirit/Antiseptic solution/Hydrogen peroxide.**

ii) cover wounds

- ✓ **Plaster**

c) Which structure is used by first Aiders to carry casualties who can't walk?

- ✓ **Stretcher**

52. How does each of the following animals protect itself against the enemies?

i) bee

- ✓ **By stinging**

ii) millipede

- ✓ **By coiling**

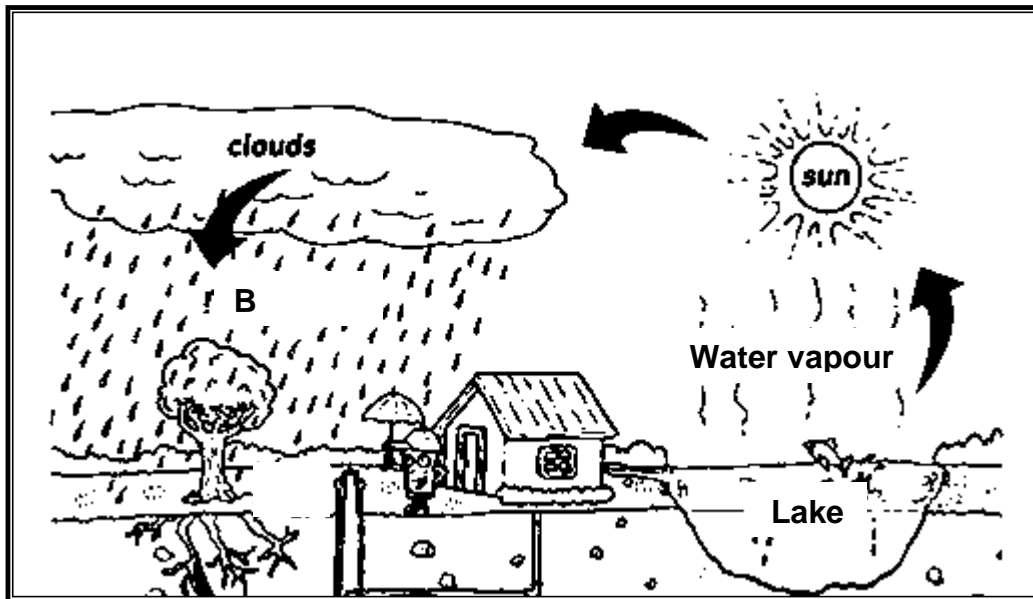
iii) snail

- ✓ **By entering the shell**

iv) chameleon

- ✓ **By changing colour**

53. The diagram below shows a type of rainfall received at Mr. Musana's home. Use it to answer questions that follow.



a) Name the type of rainfall received at Mr. Musana's home.

✓ **Convectional rainfall**

b) Use letter B to show rainfall.

✓ **Done**

b) Write **two** processes involved in rain formation.

✓ **Transpiration // Evaporation // Condensation**

54. Describe **one** way you can care for the following body parts.

i) finger nails

✓ **By trimming /Cutting it short**

ii) Teeth

✓ **By brushing using a tooth brush and tooth paste/By dental flossing/By tooth picking**

iii) Hair

✓ **By combing daily or regularly/By bathing regularly/By trimming it**

iv) Skin

✓ **By bathing regularly using clean water and soap/Avoid sharing clothes/Avoid playing using sharp objects**

55a) What is air?

- ✓ **Air is a mixture of gases**

b) State any **two** properties of air.

- ✓ **Air has weight**
- ✓ **Occupies space**
- ✓ **Exerts pressure**
- ✓ **Can be compressed**
- ✓ **Expands when heated**

c) Mention the component of air which occupy the largest percentage composition in the atmosphere

- ✓ **Nitrogen**

**END**