

KOLFRAM EDUCATIONAL SERVICES KAMPALA



BEGINNING OF TERM TWO EXAMINATION 2023

PRIMARY FOUR INTEGRATED SCIENCE

Time allowed: **2** hours 15 minutes

Index Number:

Admission Number						Personal Number		

Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

District Name: _____

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. This paper has two sections: **A** and **B**. Section A has **40** questions and section B has **15** questions. The paper has **10** printed pages.
2. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
3. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1 -10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 53		
54- 55		

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Turn over

SECTION A

1. Name the gas which supports burning.

2. What are natural changes?

3. Why do we iron clothes?

4. Give **one** way of making water safe for drinking.

5. How are prop roots useful to plants like sugarcane?

6. Which part of a flower develops into seeds after fertilization?

7. Why can't green plants make food at night?

8. How are shadows useful to man?

9. Name the natural source of Vitamin D for adults.

10. How is a dustbin useful in a classroom?

11. Give any **one** way farmers can care for their crops in the garden.

12. Name any **one** crop propagated by means of suckers.

13. Which part of a plant makes food?

14. Why is it good to bathe everyday?

15. Name the part on the body of insects which is used for breathing.

16. Identify the gas needed for seed germination to take place.

17. Give the general name of the part of a plant below.

18. How are nimbus clouds important to a farmer?

19. What is weeding?

20. Mention **one** agent of pollination.

21. How does a dog move?

22. Where does a female anopheles mosquito lay eggs?

23. Why do plants shed off their leaves during a dry season?

24. Give **one** reason for painting iron sheets.

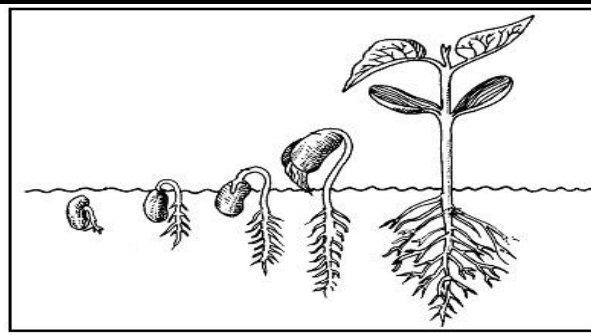
25. What are crop pests?

26. Name **one** skeletal immunisable disease.

27. Give any **one** natural source of water.

28. Why does a chameleon change its colour?

Study the diagram below and answer the questions 29 and 30.

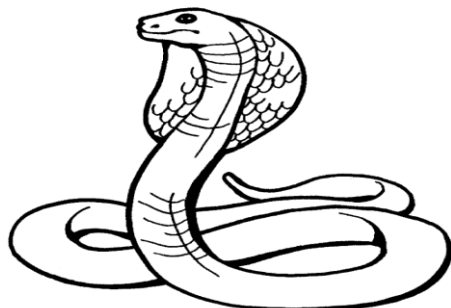


29. Name the type of germination shown above.

30. Name **one** crop which has the type of germination shown above.

31. In which part of the onion is food made?

The diagram below shows an animal. Use it to answer question 32.



32. Name the animal shown above.

33. How do plants depend on animals?

34. Identify **one** stage in a village food path.

35. Name **one** method of preserving food.

36. Write **one** example of a root tuber.

37. How useful are gills to a mushroom?

38. State any **one** bad eating habit.

39. State the function of a micropyle to a seed.

40. Give the main reason why farmers mulch their gardens.

SECTION B

41. **Below is a diagram of a staked plant. Use it to answer questions below.**



(a) Name the method of staking shown above?

(b) Name any **one** crop staked using the method above.

(c) Mention any **two** reasons for staking crops in the garden.

(i) _____

(ii) _____

42(a) What is First Aid?

(b) State the main reason for giving First Aid to a casualty.

(c) Name any two items found in a First Aid box.

(i) _____

(ii) _____

43a) Write O.R.S in full.

(b) Name the two solutes used in the preparation of O.R.S at home.

(i) _____

(ii) _____

(c) Why is a dehydrated person given O.R.S?

44a) What is pollination?

(b) Name any **one** type of pollination.

(c) What is the role of a bee in the process of pollination?

(d) Give any **one** characteristic of insect pollinated flowers.

45a) Mention **two** activities done to keep your body clean.

(i) _____

(ii) _____

(b) Give the importance of these materials used to keep our bodies clean.

(i) comb: _____

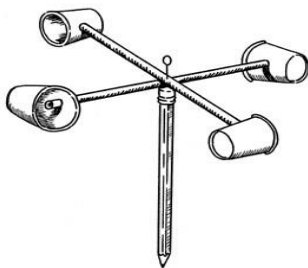
(ii) sponge: _____

46 **Match the weather instrument in list A to the weather element in List B correctly.**

	List A (weather instrument)	List B (weather element)
(a)	Rain gauge	Air pressure
(b)	Wind vane	Temperature
(c)	Thermometer	Rainfall amount
(d)	barometer	Direction of wind.
		Intensity of sunshine

- (a) Rain gauge _____
- (b) Wind vane _____
- (c) Thermometer _____
- (d) Barometer _____

47. **Below is a diagram of a weather instrument. Use it to answer questions that follow.**



(a) Name the wind instrument shown below.

(b) What is the use of weather instrument shown above?

(c) Which aspect of wind is recorded using the instrument above?

(d) Mention any other **one** wind instrument found at weather station.

48 **Complete the table correctly.**

TROPISM	STIMULI
Phototropism	_____
_____	Water
Thigmotropism	_____
_____	Force of gravity

49a) What is soil erosion?

(b) Give any **two** agents of soil erosion.

(i) _____

(ii) _____

(c) Why is soil erosion bad to a farmer?

50a) State **one** importance of transpiration to the environment.

(b) Mention **one** way in which plants take in water from the soil.

(c) Mention **one** way in which plants lose water to the atmosphere.

(d) Give **one** factor which affects the rate of transpiration.

51a) What is moving air?

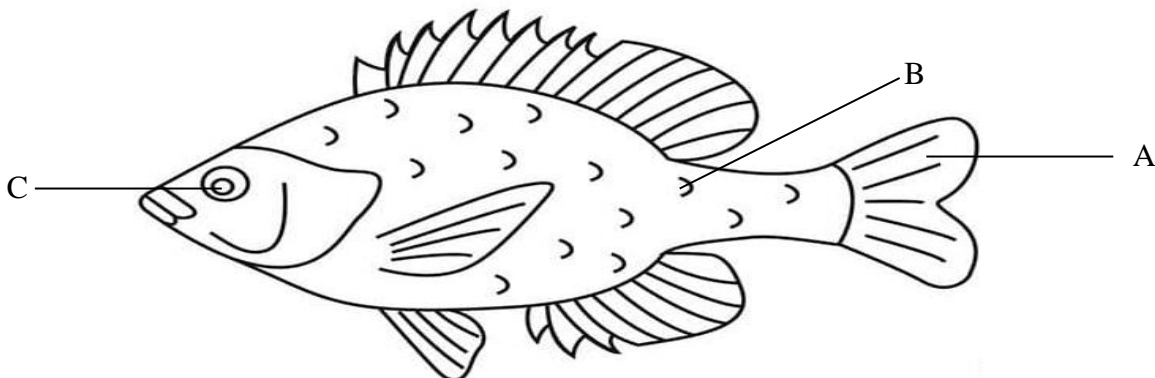
(b) State any **one** use of wind to people.

(c) Give **two** dangers of wind to people.

(i) _____

(ii) _____

52 **The diagram below shows an animal. Study it carefully and answer the questions that follow.**



(a) Name the features marked **A** and **B**.

(i) **A** _____ (ii) **B** _____

(b) State the function of part marked **C** to a fish.

(c) What is the habitat of a fish?

53a) Name the vector that spreads the germ for malaria.

(b) Give any **two** types of germs.

(i) _____

(ii) _____

(c) Mention any disease which spreads due to poor sanitation.

54a) What is soil profile?

(b) State the top most horizons of soil.

(c) Which layer of soil is suitable for crop growing?

(d) Name any **one** living organism which lives in the soil.

55a) What is environment?

(b) State any **two** components of the environment.

(i) _____

(ii) _____

(c) How is man dangerous to the natural environment?

Good luck

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MARKING GUIDE FOR P.4 SCIENCE BOT TWO 2023

SECTION A

1. Oxygen. 2. Natural changes are God made changes or forces that make things happen. 3. To kill germs/to kill lice and their eggs/Look smart and clean. 4. By boiling it. 5. Prop roots give extra support to them. 6. Ovules. 7. No sunlight is present. 8. They show direction. 9. The tell time. 10. To keep/store rubbish or litter. 11. Pruning/staking/watering/spraying/ 12. Pineapples/banana/sisal 13. Leaves 14. Bathing prevents bad smell/It also prevents skin diseases/ 15. Spiracles 16. Oxygen 17. Pistil 18. They provide rainfall to a farmer. 19. The removal of unwanted plants from the garden. 20. Insects/wind/flowing water/animals/ 21. By wriggling 22. On stagnant water 23. To reduce on the rate of transpiration.	24. It helps to prevent rusting. 25. Living organisms which destroy crops. 26. Polio 27. Rain/springs/streams/lakes/rivers/ 28. To hide from enemies/To be able to catch its prey 29. Epigeal germination 30. Beans, peas, 31. Leaves 32. Snake 33. Plants get carbon dioxide from animals/Plants get manure from animals. 34. Clearing the land/Selection of planting materials/Planting/caring for crops/Harvesting/Storing/Preparing food/Eating & usage of food in body. 35. Salting/freezing/sun drying/pasteurization/pickling/smoking/ 36. Cassava/carrots/sweet potatoes/ 37. They produce and store spores. 38. Talking while eating/putting too much food in the mouth/Chewing a little or swallowing food that is not properly chewed. 39. To allow in air and water during germination. 40. To keep water in the soil.
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SECTION B

41. (a) propping . (b) bananas, coffee (c) to avoid rotting of fruits, gives support to the plants 42. (a) The help (treatment) given to an injured person before being taken to a nearby hospital or health centre. (b) To save life. (c) Safety pin/razorblade/bandage/pain killers/ 43. (a) Oral Rehydration Salts. (b) Salt/Sugar (c) To replace the lost mineral salts in the body/To rehydrate the body. 44. (a) Pollination is the transfer of pollen grains form anthers to the stigma.	(b) Self pollination/Cross pollination (c) It carries pollens from one flower to another. (d) Sticky pollen grains/brightly coloured petals/style longer than the filament/Have nectar/Big petals/few pollen grains produced. 45. (a) Combing hair/Brushing teeth/Bathing/grooming finger nails (b) (i) To make the hair smart/kempt/to groom hair. (ii) To scrub the body. 46. (a) rainfall amount. (b) direction of wind. (c) Temperature. (d) Air pressure. 47. (a) Anemometer. (b) for measuring the speed of wind
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- (c) wind speed
- (d) wind vane, wind cock
- 48. (a) light
- (b) Hydrotropism
- (c) touch
- (d) Geotropism
- 49. (a) The removal of top soil by agents.
- (b) wind/water (running water)/animals/
- (c) I t makes the soil infertile/less suitable for crop growth.
- 50. (a) It helps in rain formation.
- (b) By absorption through the roots.
- (c) Transpiration.
- (d) Wind/humidity/surface area of a leaf/temperature/Number of stomata.
- 51. (a) Wind
- (b) Destruction of property/Spreading disease germs/Raises dust/Soil erosion (wind erosion)
- 52. (a) **A-** Tail fin **B-** Scale
- (b) for seeing in water.
- (c) Water.
- 53. (a) Female anopheles mosquito.
- (b) Protozoa/Virus/Bacteria/Fungi.
- (c) Cholera/Malaria/Diarrhoea/Dysentry
- 54. (a) The vertical arrangement of soil layers.
- (b) top-soil,
- (c) top-soil
- (d) termites, snakes, millipeds, earthworm
- 55. (a) Things that surround man.
- (b) Plants/air/soil/animals/water/
- (c) By polluting air/water/overgrazing/Bush burning/ cutting trees without planting new ones.