

THE JEROX END OF YEAR EXAMINATION 2023

Primary Six Integrated Science

TIME ALLOWED: 2 HOURS 15 MINUTES

NAME _____

SCHOOL _____

STREAM _____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections **A** and **B**.
2. Section **A** has **40** questions (**40** marks) and **B** has **15** questions (**60** marks).
3. Answer all questions in both sections **A** and **B**.
4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
Only diagrams and graph work be done in pencil.
5. Unnecessary crossing will lead to loss of marks.
6. Poor handwriting, which can not be easily read, may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

Teacher's comment to the pupil

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SECTION A (40 MARKS)

(Question 1 to 40, carry **one** mark each)

1. Name **one** example of a legume.

2. Which part of the mouth helps in tasting the food we eat?

3. Give the main reason why farmers rear beef cattle.

4. State the difference between ferns and pine trees in terms of reproduction.

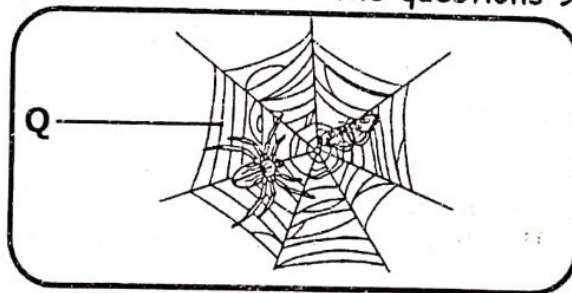
5. Identify the method **one** can use to prepare pure water from impure water.

6. Mention any **one** item people use to clean the floor of an ordinary pit latrine.

7. Give any **one** safe place where school children can cross a busy road from.

8. How is a caterpillar dangerous to a maize grower?

Use the diagram below and answer the questions 9 and 10.



9. Name the structure marked **Q**.

10. State **one** importance of the structure marked **Q** to spiders.

11. State **one** adaption of a chameleon to its mode of feeding.

12. What is the gestation period of an ewe?

13. Name any **one** immunisable disease that attacks the liver.



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1

14. State the first aid given to a casualty with near drowning.

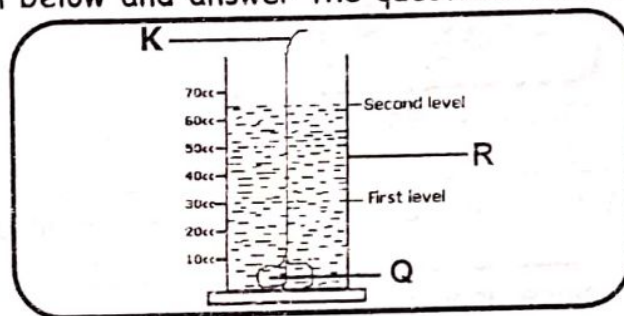
15. Mention **one** common method of preserving harvested cassava tubers.

16. To which group of arthropods do crabs belong?

17. Give any **one** waste product of respiration.

18. Name **one** blood vessel that connects the lungs to the heart.

Use the diagram below and answer the questions that follow.



19. Calculate the volume of the object marked Q.

20. Name the kind of object whose volume is found as shown in the diagram above.

21. Give any **one** way in which some animals depend on echoes in the environment.

22. Mention the blood group for a universal donor.

23. Suggest **one** way in which crop farmers protect newly germinated seedlings from drying up.

24. Mention any **one** condition that favours bacteria to breed.

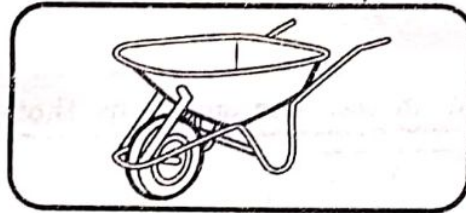
25. What type of food does an eagle feed on?

26. Which biological process in plants helps in rain formation?

27. State any **one** sign on crops attacked by pests.

28. Give any **one** way in which vectors spread disease causing germs.

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



29. Name the garden tool shown above.

30. Write any **one** way of caring for the above mentioned garden tool.

31. Mention any **one** device used to store sound.

32. Give any **one** advantage of castrating billies.

33. What does "R" represent in **ORS**?

34. Mention any **one** negative effect of smoking to an individual.

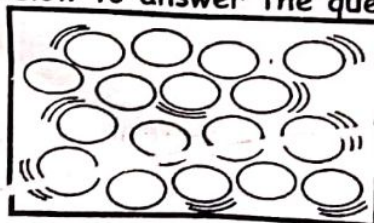
35. Give **one** danger of bush burning apart from causing soil erosion.

36. State any **one** sign of heat period in a heifer.

37. What term is used to mean resources that can be replaced naturally when used up?

38. State the importance of flashing a toilet after every use.

Use the diagram below to answer the questions 39 and 40.



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39. Name the state of matter shown above.

40. How does heat travel through the above mentioned state of matter?

SECTION B (60 Marks)

(Question 41 to 55, carries four marks)

41. (a) Give any **two** immunisable disease immunized at birth.

(i) _____

(ii) _____

(b) Write the **two** ways of administering vaccines.

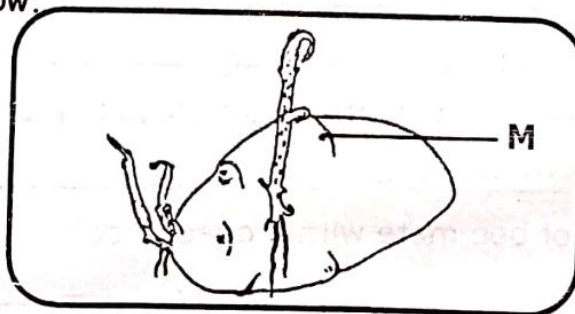
(i) _____

(ii) _____

42. Complete the table below correctly to match the animals in List A to their respective weapons in List B.

List A	List B
Dog	(i) _____
(ii) _____	Prickly hair
Fish	(iii) _____
(iv) _____	Fangs

43. The diagram below is of a certain plant. Use it to answer the questions that follow.



(a) Name the stem tuber shown in the diagram above.

(b) State the function of the part marked **M** to a crop farmer.

(c) Mention any **two** ways of caring for stem tubers.

(i) _____

(ii) _____

44. (a) Name the structures that keep the trachea open all the time.

(b) Give any **two** disorders of the respiratory system.

(i) _____

(ii) _____

(c) Write any **one** way of keeping the respiratory system in good working condition.

45. (a) **Identify the part of a tooth that;**

(i) Protects the inner parts.

(ii) Contains living cells.

(b) How are incisors differ from canines in terms of their functions?

(c) Name the last type of teeth to develop in humans.

46. (a) How does sound travel from a loud speaker to the dancers?

(b) Write any **two** factors that determine the speed of sound in air.

(i) _____

(ii) _____

(c) Give any **one** way of controlling echoes in a cinema hall.

47. (a) What type of bee mate with a queen bee?

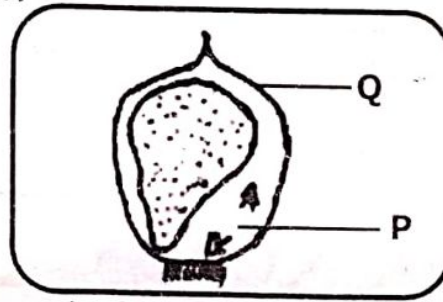
(b) Mention any **two** duties of a queen bee in a hive.

(i) _____

(ii) _____

(c) Apart from honey, give **one** other product got from honey bees.

48. The diagram below is of a maize grain. Use it to answer the questions that follow.



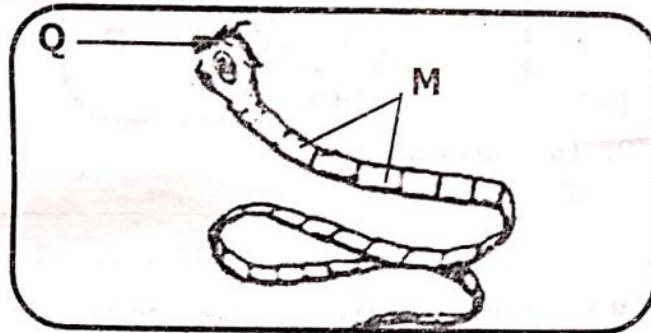
- (a) Name the parts marked;
- (i) **Q** _____
- (ii) **P** _____
- (b) Use letter (**K**) and indicate the part used to store food on the diagram.
- (c) Why is the above maize grain called a fruit?
- _____
49. (a) State any **two** factors considered when choosing a site for a chicken farm.
- (i) _____
- (ii) _____
- (b) Suggest **two** ways in which community members benefit from such a chicken farm.
- (i) _____
- (ii) _____
50. (a) Why are the following features important on a house:-
- (i) Windows? _____
- (ii) Veranda? _____
- (b) State **two** importance of sleeping in a house other than outside.
- (i) _____
- (ii) _____
51. (a) Name **two** detergents one needs to soak clothes.
- (i) _____
- (ii) _____
- (b) Identify any **two** things done to clothes after washing them.
- (i) _____
- (ii) _____
52. (a) Write **one** form of smoking apart from active smoking.
- _____
- (b) Which substance in tobacco encourages people to smoke?
- _____

(c) **Name one disease which is:-**

(i) caused by smoking tobacco _____

(ii) worsened by smoking tobacco _____

53. Below is a diagram of a certain worm, use it to answer the questions that follow.



(a) Name the parts marked;

(i) **Q** _____

(ii) **M** _____

(b) Identify the worm drawn in the diagram above.

(c) What does the above worm feed on in the human body?

54. Match tools in cattle farms to their uses.

Tool

Function

(i) A strip cup

- Crushing sperm ducts of male animals.

(ii) A lactometer

- Spraying with acaricides.

(iii) Burdizzo

- Detecting presence of mastitis in milk.

(iv) Knap sack sprayer

- Detects water added in milk.

(i) A strip cup _____

(ii) A lactometer _____

(iii) Burdizzo _____

(iv) Knap sack sprayer _____

55. (a) Mention any **two** examples of renewable resources in the environment.

(i) _____

(ii) _____

(b) Give **one** process that replaces air naturally in the environment.

(c) Name any **one** product got from wood?