



ATLAS JUNIOR ACADEMY – LUGOBA NABWERU

END OF TERM TWO EXAMINATION 2023

INTEGRATED SCIENCE

PRIMARY SIX

Time allowed: 2 hours 15 Minutes

Name:Stream:

Read the following instructions carefully.

FOR EXAMINER'S USE
ONLY

1. This paper has two sections: A and B
2. Section A has 40 questions (40 marks)
3. Section B has 15 questions (60marks)
4. Answer all questions. All answers to both sections A and B must be written in spaces provided.
5. All answers must be clearly written using blue or black ball point pen or ink.
6. Unnecessary changes of work may lead to loss of marks.
7. Any handwriting that cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the boxes indicated. For official use only.

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Qn. No.	MARKS	EXR'S NO.
1 – 15		
16 – 28		
29 – 37		
38 - 43		
44--47		
48 - 52		
53 - 55		
TOTAL		

SECTION A (40 MARKS)

1. Name one non living resource in the environment.

2. Which food value is obtained from eating food from legumes?

3. Which part of the ear transmits nerve messages about hearing to the brain for interpretation?

4. In which way is a lactometer useful to a dairy farmer?

5. Why are muscles on the left side of the heart thicker than those on the right side of the heart?

6. In which one way is a centipede different from a millipede?

7. What do we call the act of giving birth to calves in cows?

8. Which component of blood prevents bleeding by clotting blood on fresh wounds?

Below is a foot of a bird. Use it to answer question 9 and 10.



9. Which group of birds have such kind of foot shown in the diagram?

10. How is the above foot in the diagram adapted to its function?

11. What term refers to different stages of food production?

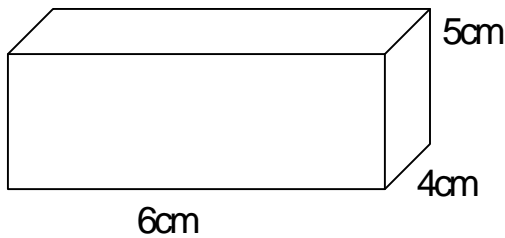
12. Why is a puffball not regarded as a plant?

13. Besides keep moisture in the soil, give one any other reason why farmers mulch their gardens.

14. Name one example of a perennial crop.

15. Where in the body does respiration take place?

16. The diagram below shows a chalk box. Find its volume.



17. Why do electric wires become tightly fixed on poles during cold days?

18. State one danger of buying drugs from local drug shops or market.

19. Mention any one tick borne disease that affects cattle.

20. Give one reason why people keep poultry.

21. Why do arteries have thicker walls?

22. How is respiration process useful to the body?

Below is a method of identifying cattle. Use it to answer questions that follow.



23. Name the method of identifying animals shown in the above diagram.

24. State any one structural difference between a cock and a hen.

25. State the role of a drone bee in a hive.

26. In which way can the volume of a sweet potato be determined?

27. Suggest any one way in which the body acquires natural immunity.

28. In which one way do earthworms help in aeration of the soil?

Study the diagrams below and answer question 30 and 31.



29. From the above diagram, which of the two drums will produce the highest pitch when played?

30. Give a reason to support your answer in No. (29).

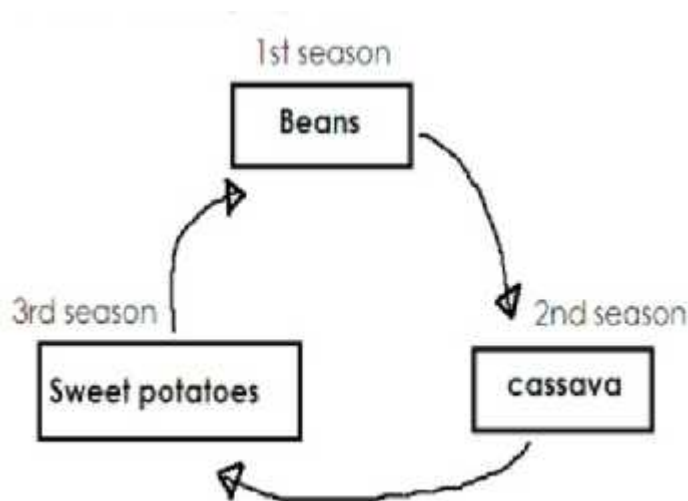
31. How are spiders helpful in the control of malaria in a home?

32. Identify any one agent of soil erosion.

33. Mention any one mineral salt lost during dehydration.

34. Mention one example of beef breed of cattle kept in Uganda.

Musa planted his crops seasonally as follows.



35. Which crop growing practice was Musa practising?

36. How does cigarette smoking affect human lungs?

37. Give one way of keeping the skin free from infections.

38. In which way is oxygen useful during the process of respiration?

39. State one danger of drug abuse to a Primary six child.

40. What do we call the male gametes of plants?

SECTION B (60 MARKS)

41. a) Explain the term plant propagation.

b) A part from grafting, mention any other two artificial methods of vegetative plant propagation.

i) _____

ii) _____

c) State any one advantage of vegetative plant propagation.

42. Use the list below to answer question 42.

P	Q	R
CHAMELEON Gecko	Chimpanzee Pig	New frog

a) To which group of vertebrates do animals in list R belong?

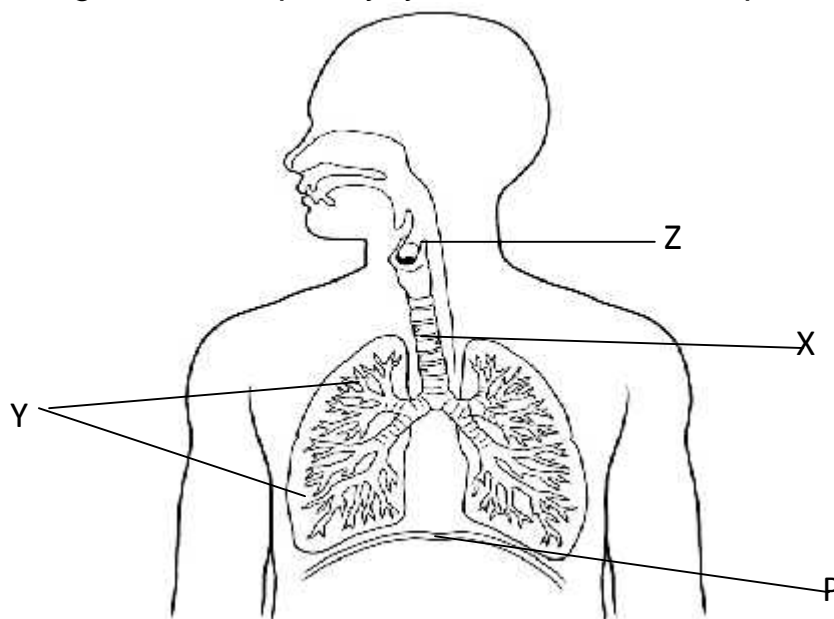
b) In which way are animals in Q different from those in W in terms of reproduction?

c) State any two similarities between animals in P and R.

i) _____

ii) _____

43. Below is a diagram of the respiratory system. Use it to answer question 43.



a) Name the parts labeled;

i) P _____

ii) Z _____

b) What important process takes place in part labeled Y?

c) Why is part labeled X made up of rings of cartilage?

44. a) Give one exotic breeds of rabbits.

b) Suggest any two characteristics of local breeds of rabbits.

i) _____

ii) _____

c) Why should a house of a rabbit be raised few metres above the ground?

45. What are essential drugs?

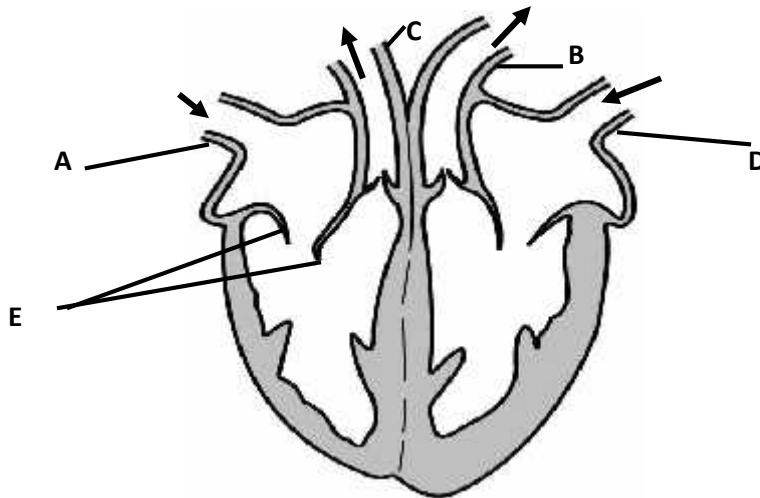
b) Mention any two examples of essential drugs,

i) _____

ii) _____

c) State any one importance of the essential drugs you have mention in (b) above)

46. Below is the structure of the human heart. Use it to answer the questions that follow.



a) Name the blood vessel marked with letter;

i) A _____ ii) B _____

b) How is blood transported by blood vessel C different from that of blood vessel D?

c) How useful are structures marked X to the heart?

47. State the function of the following parts on a living house.

i) ventilators _____

ii) windows _____

b) Why are ventilators placed above windows on a living house?

c) State one danger living in a house without ventilators.

48. Define the term castration.

b) Suggest any two reasons why farmer castrate their bulls on a farm.

i) _____

ii) _____

c) Name the special tool which farmers use for closed castration of bulls.

49. a) In which two ways can wind be used as a resource in the environment?

i) _____

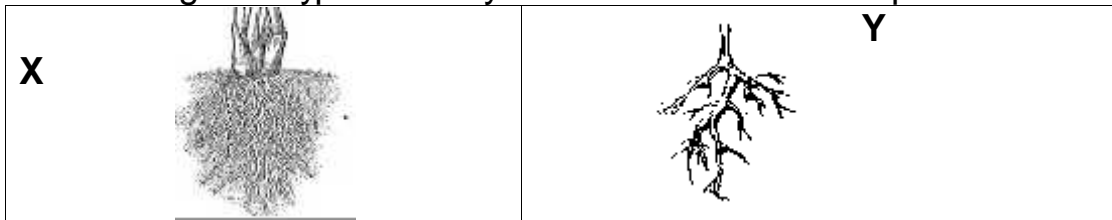
ii) _____

b) State any two dangers of wind in the environment.

i) _____

ii) _____

50. Below are diagram of types of root systems. Use them to answer questions that follow.



a) Name the type of root marked with letter X and Y.

i) X _____ ii) Y _____

b) Mention any one crop with roots X and Y.

i) X _____ ii) Y _____

51. a) What is sound energy?

b) In which one way are sound echoes useful to a bat?

c) How can echoes be reduced in Cinema halls and Studios?

d) Identify any one factor that affects the speed of sound.

52. a) Mention any one seed dispersed b water.

b) State any one characteristic of water dispersed seeds.

c) Give any two importance of seed dispersal in the environment.

i) _____

ii) _____

53. a) Which group of birds are unable to fly but can run very fast.

b) Mention any two examples of birds that belong to the group of birds you mentioned in (a) above.

i) _____

ii) _____

c) Give a reason why the group of birds you have mentioned in (a) above are unable to fly.

54. Match the crop growing practice to its definition.

Wrong order

i. Pruning

is the removal of excess seedlings from the garden.

ii. Thinning

is the covering of top soil with dry plant materials.

iii. Weeding

is the removal of unwanted plants from the garden.

iv. Mulching

is the removal of excess branches from a plant.

Correct order.

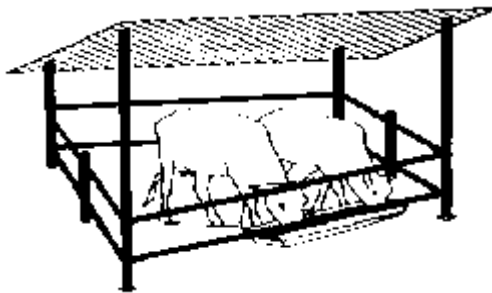
i. Pruning

ii. Thinning

iii. Weeding

iv. Mulching

55. The diagram below shows a cattle grazing system. Study and use it to answer questions that follow.



a) Name the cattle grazing method shown in the diagram above.

b) What type of natural manure can be got from the above system?

c) Apart from easy collection of manure, state any two advantages of using the above system of grazing.

i) _____

ii) _____

SUCCESS