

ATLAS JUNIOR ACADEMY – LUGOBA NABWERU

MID TERM ONE EXAMINATION 2024

INTEGRATED SCIENCE

PRIMARY SEVEN

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.*

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1-13		
14-24		
25 - 36		
37 - 42		
43 - 46		
47 - 50		
51 - 53		
54 - 55		
TOTAL		

SECTION A (40 MARKS)

1. Of what importance are halteres to a butterfly?

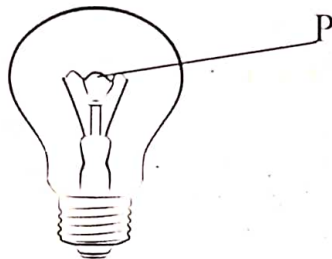
2. What characteristics makes clay soil suitable for pottery?

3. Why are bicep and triceps said to be antagonistic muscles?

4. How does the burning of rubbish help to control diseases spread houseflies?

5. In which one way is friction important to a P.7 child.

The diagram below is an electric bulb. Use it answer question 6 and 7.



6. Name the part labeled with letter P.

7. Give a reason why part P of an electric bulb above is coiled?

8. Name the group of mammals that has well developed incisor teeth.

9. In which way has NEMA tried to control environmental degradation in Uganda?

10. Why is it not advisable to make a person who has drunk paraffin to vomit?

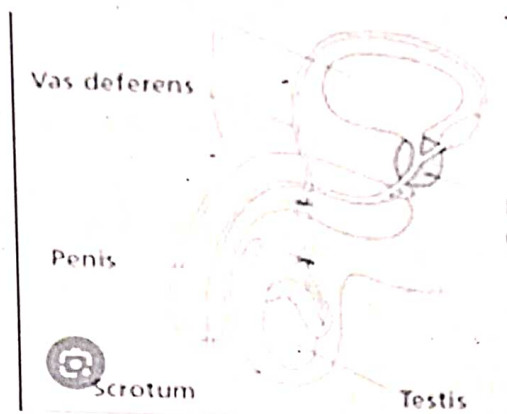
11. Which type of skeleton is commonly found in most vertebrates?

12. Besides bacteria, which other organisms help in the fermentation of alcohol.

13. What is a short circuit?

14. Which property of magnets help pilots to find direction of places?
15. Give one difference between the air breathed in and the air breathed out.

The diagram below shows an artificial birth control method. Use it to answer question 16.

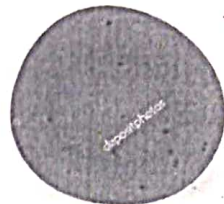


16. Identify the artificial birth control method shown in the diagram above.
17. In which way is a fuse similar to an electric switch in terms of function?
18. State one advantage of using hydroelectricity for cooking at home.
19. Give one condition that promotes breeding in bacteria.
20. In which way are perches important in a poultry house?
21. Kayongo was advised by the nutritionist to eat the following food stuffs on daily basis; posho, millet cake and rice. Which deficiency disease was he suffering from?
22. Which state of matter has a definite volume but no definite shape?
23. Why should a VIP latrine can be constructed 10 metres away from a living house?
24. State the difference between a hinge joint and a ball and socket joint.

- 3
25. Mention the device that converts the electrical energy into mechanical energy
-
26. Mulongo boiled milk and as she was putting it in the flask it poured on her leg. What kind of accident did she get?
-
27. What type of electricity does not involve the flow of electrons through electric conductors?
-
28. What do we call the number of times a machine simplifies work?
-
29. Name the type of soil erosion that leads to formation of big channel
Below are blood cells. Use it to answer the question 30 and 31.



X



Y

30. Name the blood cell marked with letter X.
-
31. State one structural difference between blood cell X and Y.
-
32. How does soaking of dry bean before cooking them help to save energy?
-
33. What energy change takes place to the dry cells when the electric circuit is complete?
-
34. How does frequency affect the pitch of sound?
-
35. Janet's piano use 4 dry cells. How many volts are needed for Janet to use her piano?
-
36. Give one reason why insects undergo moulting.
-

37. How is mycelium important to a saprophyte like mushrooms?
-
38. Give one reason why a body of a bird is able to reduce air resistance while flying
-
39. In which way are treads important on a car tyre?
-
40. State the reason why the pig sty should be constructed with a slanting floor.
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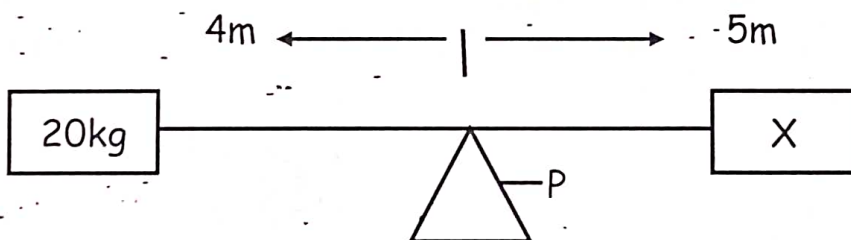
SECTION B (60 MARKS)

41. a) Name the process of making alcohol; illustrate in the equation below.



- a) To which group of living things does yeast belong?
-
- b) What type of alcohol is poisonous to the body when taken?
-
- c) State any one way how the youths can safeguard themselves against alcoholism.
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42. The diagram below shows a simple weighing scale in balance. Use it to answer questions that follow.



- a) Name the point marked P on the diagram.
-
- b) Calculate the value of X in kg as shown in the diagram above. (2marks)
-

c) State principle of moments.

43. a) Why is rusting of metals a chemical change?

b) State one danger of rusting to iron tools.

c) Write down any two ways of preventing rusting of metals in the environment.

i) _____

ii) _____

44. Mendo put a big feather and a small stone in water at the same time.

a) How did each behave in water?

i) big feather _____

ii) small feather _____

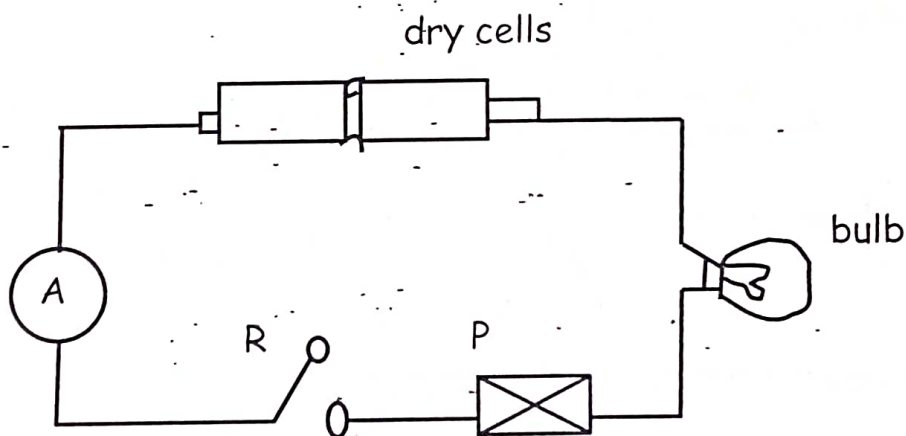
b) Give a reason to support your answer in (a) above.

c) Give a reason why it is easier for Mukisa to pedal his bicycle downhill than pedaling it uphill?

i) _____

ii) _____

45. The diagram below is of an electric circuit. Use it to answer questions that follow.



a) Name the parts of an electric circuit marked;

i) P _____

ii) R _____

b) State the energy change that will occur in the bulb when the switch is pressed or closed.

46. a) Give a reason why latrines should be built downhill the water source.

b) Give the recommended distance between the pit latrine and water source.

c) State two ways of keeping conventional latrines clean.

i) _____

ii) _____

47. a) Mention two methods used to extract honey from combs.

i) _____

ii) _____

b) State the use of heat in the extraction of honey from honey combs.

c) How is propolis collected by worker bees from plants useful in their hive setting?

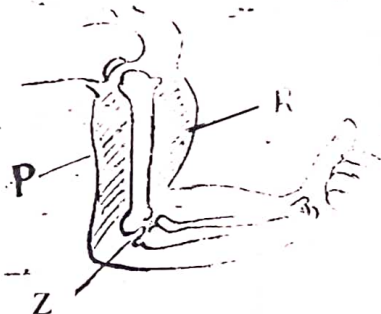
48. a) Mention any two non- living renewable resources in the environment apart from sun.

i) _____ ii) _____

b) Why is the sun regarded as an inexhaustible resource?

c) How does sundrying help to dry harvested cereals?

49. The diagram shows voluntary muscles of the human arm. Study and use it to answer questions that follow.



a) Name the muscle marked with letter P.

b) What happens to voluntary muscle R when the arm is straightened?

c) Name the movable joint found at part 2.

d) Give any one disorder of skeletal muscular system.

50. a) List any two examples of water pollutants.

i) _____ ii) _____

b) Mention any one effect of water pollution to human health.

c) Give any one way of protecting community water sources from pollution.

51. a) Which wood fuel is obtained by burning wood with limited supply oxygen?

b) Give any two ways of conserving vegetation in our environment.

i) _____

ii) _____

c) State any one danger of uncontrolled cutting down of trees.

52. a) Mention any one primary sex characteristic that occurs in boys.

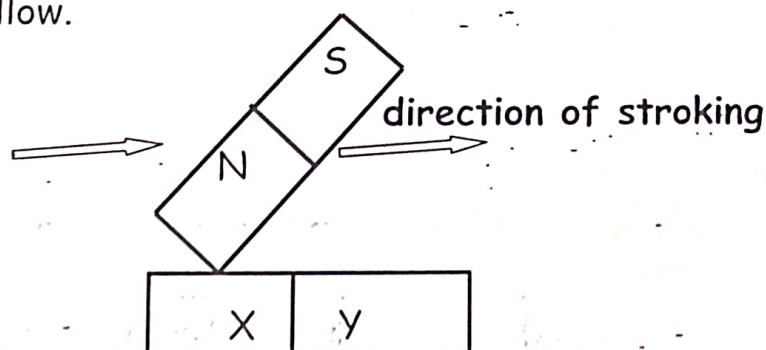
b) State any two problems that are caused due to teenage pregnancy to a girl.

i) _____

ii) _____

c) Why should adolescents be kept busy?

53. The diagram shows a method of making magnets. Use it to answer questions that follow.



a) Name the method of making magnets shown above.

b) Name the pole marked with letter.

i) X _____ ii) Y _____

- c) Apart from the above method, mention one other method of making magnets.

54. Use the table below to answer the questions that follow.

A	B	C
Water lilies	Mango	Castor oil seed

State the mechanism of seed dispersal marked with;

- i) A _____ ii) C _____
b) Write one characteristic that makes a mango seed to be dispersed easily by animals.

- c) State any one importance of seed dispersal in the environment.

55. a) What do we call the condition when a foreign body has entered a person's throat?

- b) State the first aid for the condition you mentioned above.

- c) Name one foreign body that may enter the throat.

- d) State any one reason why accident victims are given first aid.