



ATLAS JUNIOR ACADEMY – LUGOBA NABWERU

MOCK EXAMINATIONS 2023

INTEGRATED SCIENCE

PRIMARY SEVEN

Time allowed: 2 hours 15 Minutes

Name: Index No:

Read the following instructions carefully.

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.

FOR EXAMINER'S USE
ONLY

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Qn. No.	MARKS	EXR'S NO.
1 – 09		
10 – 19		
20 – 28		
29 - 39		
40--43		
44 - 45		
46 - 49		
50 - 51		
52 - 55		
TOTAL		

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.

SECTION A (40 MARKS)

1. Identify any one sign of pest damage on crops.

2. In which way is the blood transported by the pulmonary vein different from that transported by pulmonary artery?

3. Why do lungs expand during the process of breathing in?

4. Identify any one example of a natural magnet.

5. Why is it easier to push a wheel barrow downhill than uphill?

6. A girl weighs 90kg. She sits 30cm from the fulcrum of the see-saw. How far from the fulcrum will a boy whose weight is 30kg sit in order to balance with the girl.

7. What first aid can you give to a primary seven child who has drunk paraffin?

Below is a diagram of a certain bird. Use it answer question 8.



8. To which group of birds does the one shown in the above diagram belong?

9. State any one reason why a health survey should be conducted in your community.

10. Identify any one mineral salt lost during dehydration.

11. Why are biceps and triceps called antagonistic muscles?

Below is method of harvesting trees. Use it to answer questions.



12. Which method of harvesting trees is shown in the diagram above?

13. How is a fuse useful to an electric circuit?

14. Why can't sound travel through vacuum?

15. In which one way are scavenger birds friendly to the environment?

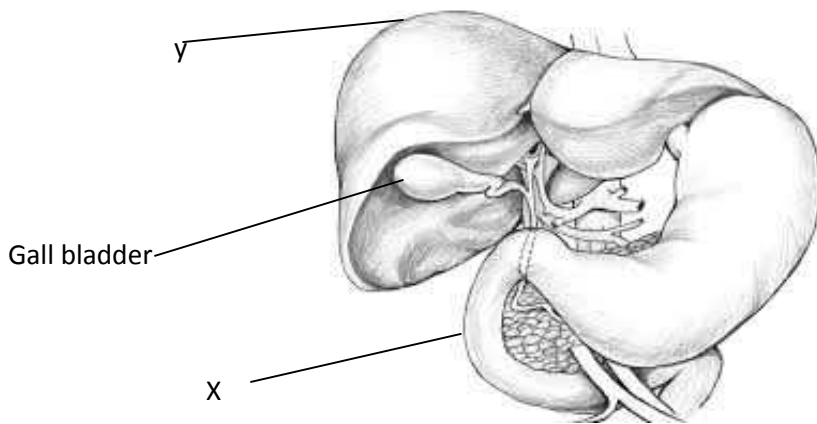
16. Why are light rays passing through the glass prism bend towards the normal during refraction of light.

17. In the space provided, draw a foot of a bird of prey.

18. Give one reason why people rinse clothes during washing process.

19. Why does a ruler partially immersed water appear bent?

Below is a part of the alimentary canal. Use it to answer question 20.



20. Name the part marked with letter X.

21. State the function of the organ marked with letter Y.

22. What do we call the gas produced during the biogas production?

23. State one danger of living in poor ventilated houses.

24. Name the type of lens shown in the diagram below.



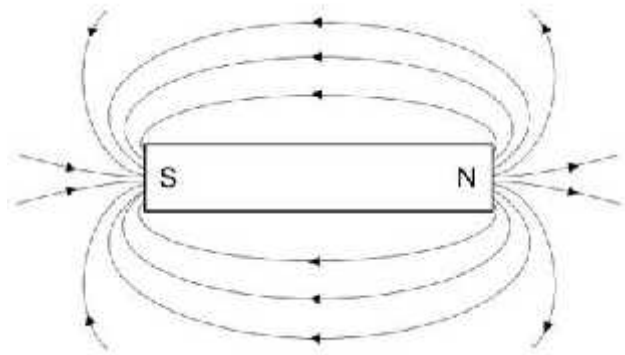
25. Which eye defect is corrected by wearing spectacles with the above lens?

26. Which component of first aid kit helps in fastening the bandage around the injured part?

27. Why do people staying around the shores of Lake Victoria not likely to suffer from Kwashiorkor?

28. Why is it not advisable to force a person who has drunk paraffin to vomit?

Below is a property of magnets. Use it to answer question.



29. Which property of magnets is illustrated in the diagram above?

30. Identify any one viral disease that attacks poultry.

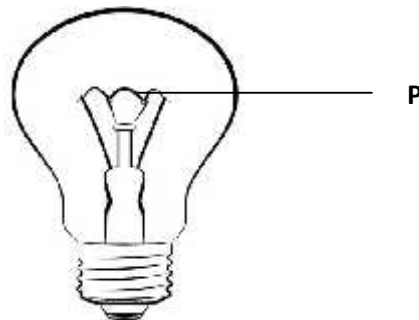
31. What do we call the force of attraction between molecules of the same substances?

32. Name any one dairy breed of cattle kept in Uganda.

33. Why are we advised to wash hands after visiting a latrine?

34. State one difference between hinge joints and ball and socket joints.

Below is a diagram of an electric bulb. Use it to answer question 35 and 36.



35. Why is part marked P coiled in the electric bulb above?

36. Name the part labeled with letter P.

37. Of what importance are root hairs to a plant?

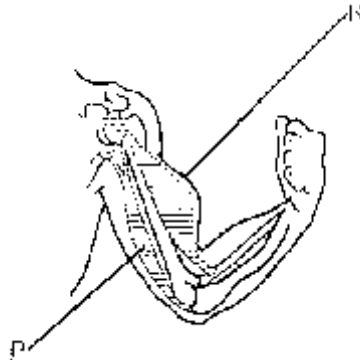
38. In which state of matter does sound travel fastest?

39. Name the form of energy stored in the food that we eat.

40. In which one way are biological changes different from physical changes?

SECTION B (60 MARKS)

41. The diagram below shows voluntary muscles of the human arm.



a) Name the muscle marked with letter P.

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

i) Muscle P _____

ii) Muscles R _____

c) Identify any one disorder of bones.

42. a) Mention one important process that takes place in the ileum.

b) Name the type of digestion where;

i. food is broken down by teeth _____

ii. food broken down by enzymes _____

c) Name one disease of the human digestive system.

43. (a) Define the following terms as used in electricity.

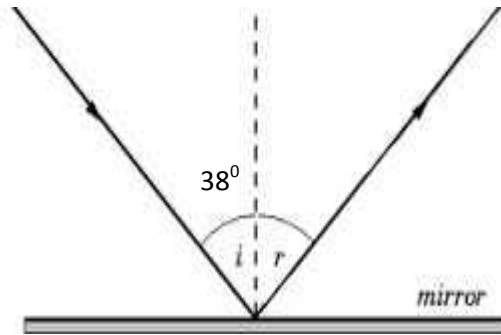
(i) An electric circuit _____

(ii) A short circuit _____

(b) State the function of a switch to an electric circuit.

(c) Name one gas used in an electric bulb.

44. Study the diagram below and use it to answer questions that follow



(a) Find the size of angle r .

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

(c) Name the ray marked with letter P

(d) State one law of reflection of light.

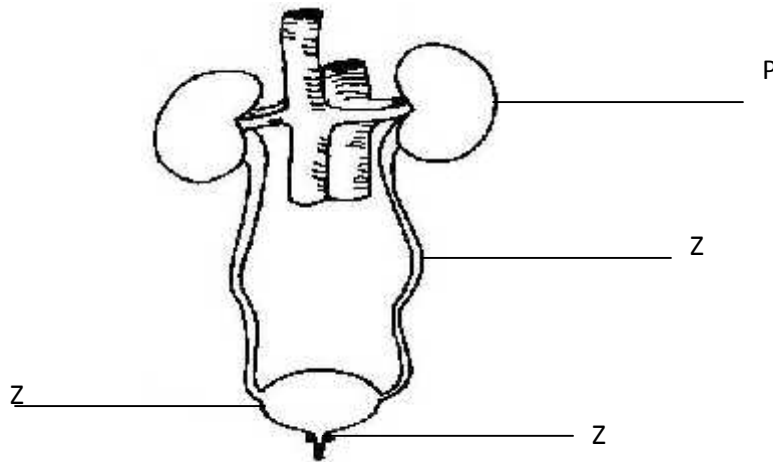
45. (a) To which group of vertebrates do frogs and toads belong?

(b) In which one way is a toad different from a frog.

(c) In which one way a toad adapted to living in water.

(d) State any one importance of toads in the environment.

46. The diagram below is of the human urinary system use to answer the questions that follow.



- (a) Name the part labeled with part;
 (i) Z _____ (ii) X _____
- (b) What major important process takes place in organ marked with letter P?

- (c) Of what importance is part marked Y to the above system.

47. A stone of mass 120g was immersed in water and the level of water rose from 40cm³ to 60cm³
- (a) What is the volume of the stone?

- (b) Calculate the density of the above stone.

- (c) Why does a stone sink in water?

- (d) Why do objects weigh less in water than in air?

48. (a) Name the process of soil formation that involves breakdown of rocks.

- (b) Identify any two types of soil.
 (i) _____
 (ii) _____
- (c) State one role played by earthworms in the soil.

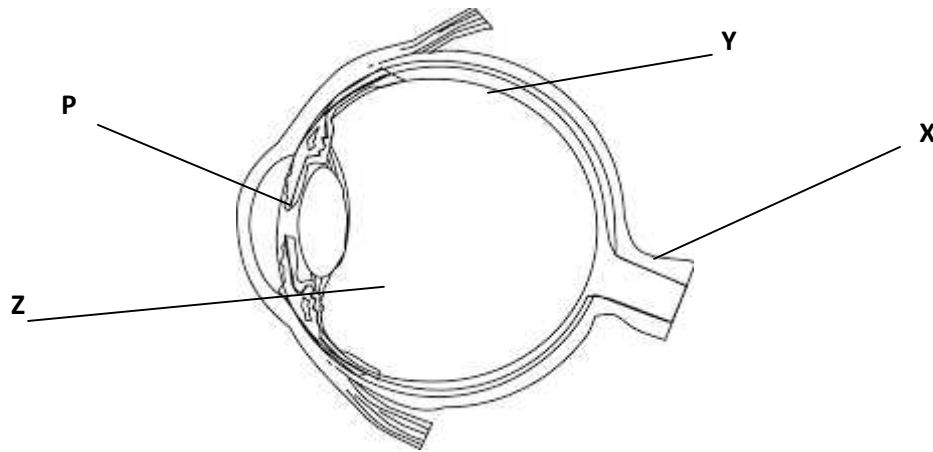
49. (a) Which part of the human ear
(i) amplifies and transmits vibrations to the inner ear?

(ii) balances the body?

(b) Which part of the fish is compared to the human ear?

(c) State one danger of using a tip of a pen to clean the ears.

50. Below is a diagram of a human eye use it to answer question

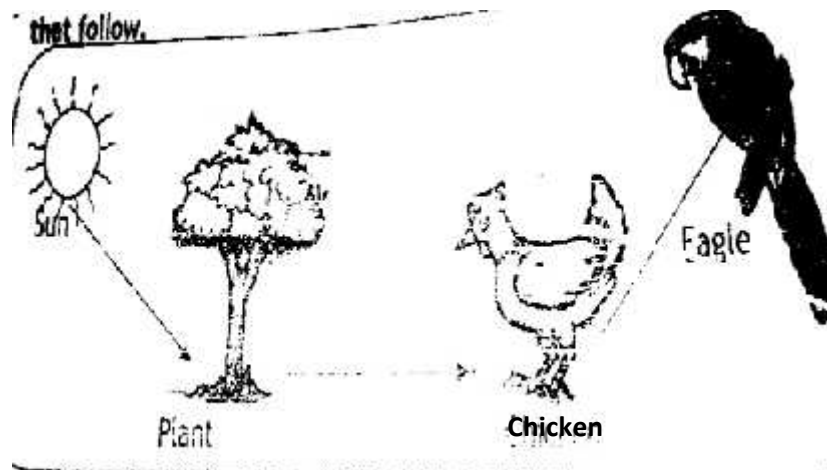


(a) Name the part of the eye marked with letter Z and X.

(b) Which part of the lens camera performs similar function like for part P?

(c) State the function of part marked Y to the human eye.

51. The diagram below shows a food chain. Study it carefully and answer questions that follow.



(a) Name the primary consumer according to the diagram above.

(b) How is the sun important in the food chain above?

(c) What do arrows represent in the food chain above?

(d) How are fungi important in the food chain?

52. (a) Give any one example of an alloy.

(b) How does painting metal prevent them from rusting?

(c) Apart from alloying metals, state any other two ways of conserving non-renewable resources in the environment.

(i) _____

(ii) _____

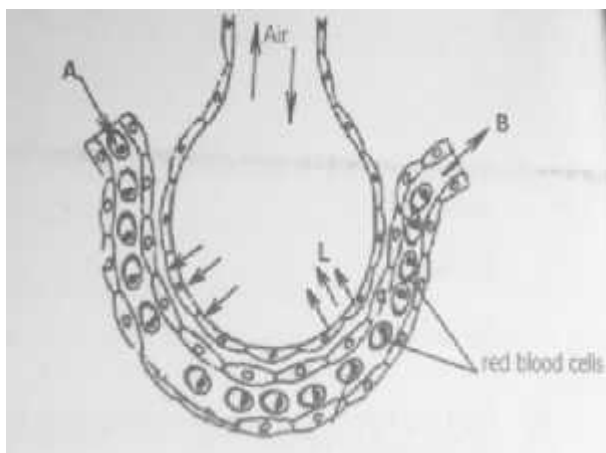
53. (a) Apart from moving animals, mention any other agents of soil erosion.

(b) State any two ways of controlling soil erosion in hilly areas.

(i) _____

(ii) _____

54. The diagram below shows part of the respiratory system. Use it to answer questions that follow.



(a) Identify the part of the respiratory system shown above.

(b) Name the gas labeled with letter L

(c) In which one way is the above part adapted to its function?

(d) How is blood in A different from that in B?

55. (a) Define the term "friction"

(b) State any one way how friction can be reduced in moving parts of a machine.

(c) Give any two importance of friction in our daily life.

(i) _____

(ii) _____