



# THE PRIME EXAMINATIONS 2024

## P.7 MID TERM II

### INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

INDEX NO:

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#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B** Section **A** has 40 questions and section **B** has 15 questions. The paper has 7 printed pages.
3. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than graphs and diagrams will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
6. Do **not** fill anything in the table indicated "**For Examiners' use only**", and those boxes inside the question paper.

#### FOR EXAMINERS' USE ONLY

QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

APPROVED:

Consultant

Integrated Science Department (P.E.C)

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Kampala

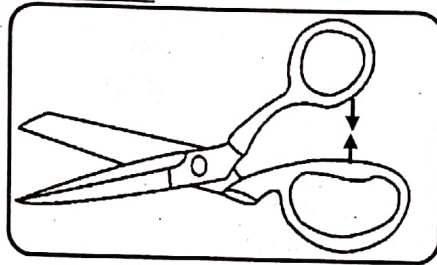
Turn Over



**Section A (40 Marks)**

1. Name the disease vector that lays eggs in still water.
2. How do **ball bearings** reduce friction in machines?
3. In which **one** way is the process of **excretion** important to the body?
4. Mention **one** way of conserving plant resources in the environment.
5. Why does blood go to the **kidneys** before circulating to other parts of the body?

**The diagram below shows an example of a simple machine. Study and use it to answer questions 6 and 7.**



6. To which class of levers would you classify the simple machine above?
7. Use an **arrow** and letter **V** to show the turning point of the above simple machine.
8. Give the reason why we exhale less percentage of oxygen than the one we breathe in.
9. Mention **one** indicator of poor personal hygiene.
10. How is the **synovial fluid** found in the joint similar to oil used in machines in terms of their function?
11. Give the reason why a freely suspended magnet rests in the North to South direction.
12. State the importance of wire mesh on a hutch.

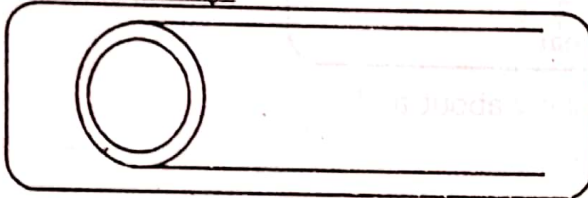


13. How are birds of prey adapted to their mode of feeding in the environment?

14. Name the type of worm that enters our body through eating under cooked meat.

15. How does boiling make water safe for drinking?

The diagram below shows a blood vessel. Study and use it to answer questions 16 and 17 correctly.



16. Name the blood vessel shown above.

17. Which type of blood is transported by the blood vessel named in (16) above?

18. State one condition that may make a bulb fail to work when the switch is closed.

19. In which one way are magnets useful to doctors in performing their daily work?

20. Give one health benefit of drinking enough water after having a meal.

21. Why are triceps and biceps called voluntary muscles?

22. Give a functional difference between ventilators and windows on a living house.

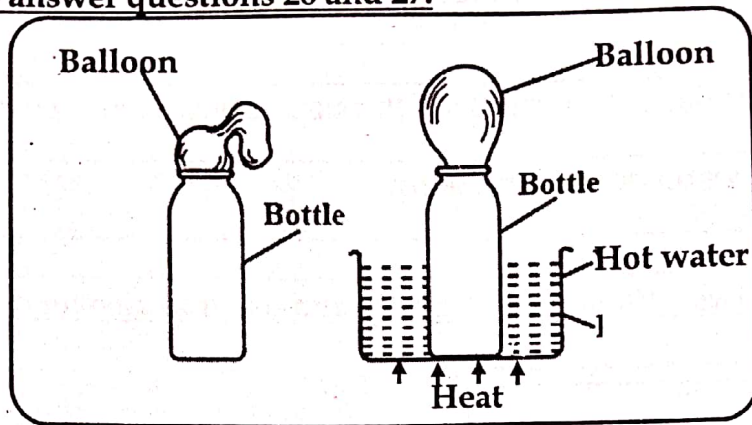
23. Name the type of pollination carried out by bees in the environment.

24. Give the importance of a strip cup to cattle keepers.

25. Why are green stick fractures common in babies?



**WARNING: Not to be reproduced electronically!!** The experiment below was carried out by the pupils of P.5 class. Study and use it to answer questions 26 and 27.



26. What does the experiment above show about air?
27. Give the importance of heat in experiment above.
28. State the first aid for burns and scalds.
29. Give any one advantage of seed and fruit dispersal.
30. Name the body organ responsible for removing urea and uric acid in blood.
31. Give any one way of preventing the spread of ringworm infection.
32. Apart from Plymouth rock, mention one other breed of chicken kept for meat production.
33. Name the type of pulley used when hoisting a flag on a pole.
34. Give any one activity involved in water and environmental sanitation.

The diagram below shows a man caring for his crops in the garden. Study and use it to answer questions 35 and 36 correctly.

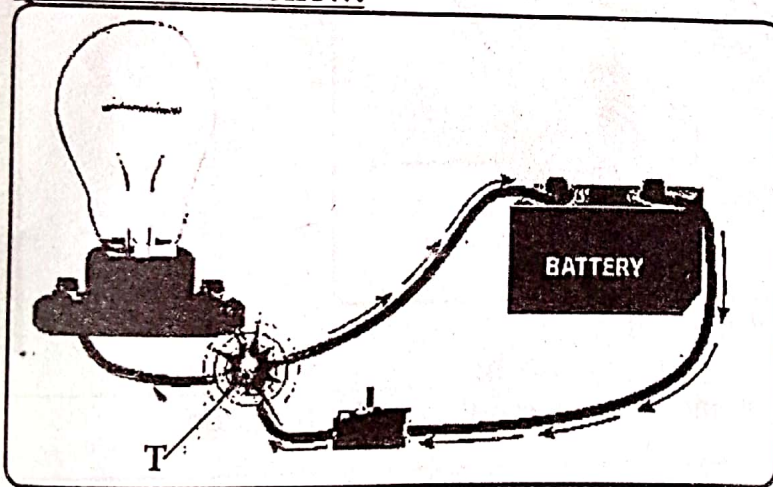




35. Name the crop growing practice carried out by the man in the diagram above.
36. How useful is the above practice to crops?
37. Give the reason for grooming our long **fingernails** short.
38. Name the method of making alcohol that involves the use of yeast.
39. State one way of keeping our kidneys in a good working condition.
40. How does an inclined plane as a machine simplify work?

### Section B (60 Marks).

41. (a) Give the meaning of the term **food preservation**.  
 (b) Mention any two traditional ways of preserving food at home.  
 (i) \_\_\_\_\_ (ii) \_\_\_\_\_  
 (c) Give one importance of preserving food at home.
42. The diagram below is about an electric circuit. Study and use it to answer questions that follow.



- (a) Which term is used to mean the condition that occurred in the part marked T in the diagram?
- (b) Give the main cause of the condition named in (a) above.
- (c) What happened to the bulb when the above condition occurred?



(d) Give one way of preventing the condition shown at T from happening in a circuit.

43. (a) Mention any two waste materials removed by the skin in the body.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) State any two ways how the human skin can regulate the body temperature on hot days.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

44. (a) How is a first box differ from first kit?

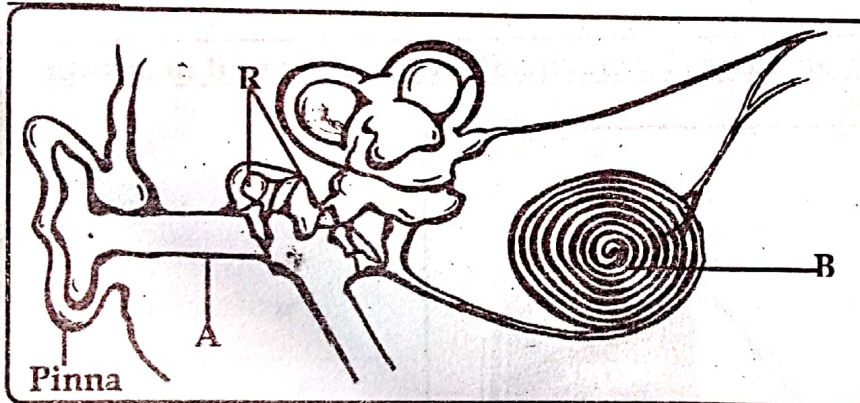
(b) Give the reason for tying splints around the broken bone in the body.

(c) State two signs of compound fracture.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

45. The diagram below of a human ear. Study and use it to answer questions that follow.



(a) Identify the parts marked A and B.

(ii) A: \_\_\_\_\_ (ii) B: \_\_\_\_\_

(b) Give any one way how the ear pinna is adapted to its function.

(c) State the use of part marked B from the diagram above.

46. (a) Why are third class levers referred to as distance multipliers?

(b) Give any one force that affects the mechanical advantage of machines.



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(c) To which class of simple machines would you group the following:

(i) A knife : \_\_\_\_\_

(ii) Seesaw : \_\_\_\_\_

47. (a) Mention **two** examples of long bones found in the lower limbs of human beings.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Which disease of the skeleton is characterized by bow shaped legs?

(c) Name the best way of preventing the disease named in 47(b) above.

48. The diagram below is about digestion of food, study the table below and complete it correctly.

Site	Digestive juice	Enzyme
Mouth	Saliva	(a) _____
(b) _____	Gastric juice	Pepsin and Rennin
Pancreas	(c) _____	Lipase, Trypsin, Pancreatic amylase
Liver	(d) _____	No enzyme.

49. (a) Give any **two** ways of preventing diseases without treatment at home.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any **two** activities done at home to keep the compound clean.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

50. (a) Mention **two** forms of energy produced by burning wood.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give **one** advantage of covering food while cooking.

(c) How is the use of wood fuel affect the environment?

51. (a) State **one** way how the force of friction is useful to the following people.

(i) A cook setting fire:

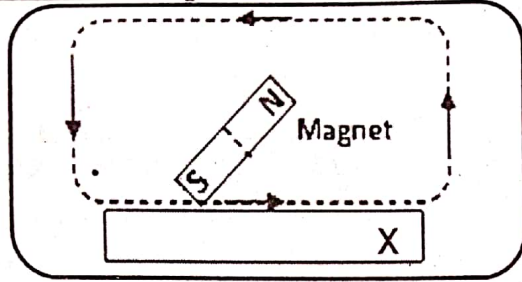
(ii) A butcher:

(b) Give any **one** way how a streamlined body is useful to a sunbird during flight.

(c) Why are tarmac roads constructed with rough surfaces?



52. The diagram below shows a method of making a temporary magnet. Study and use it to answer questions that follow.



- (a) Name the method of making temporary magnets shown above.
- (b) Which pole will X become after gaining magnetism?
- (c) Apart from the method named in (a) above, mention one other method of making temporary magnets.
- (d) How is a bar magnet important to a person using a six's thermometer?
53. (a) Write the term used to mean the following in bee keeping.
- (i) *Selecting a suitable place to put bee hive.*
- (ii) *Encouraging of bees to occupy an empty hive.*
- (b) Give two uses of bees wax to man.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
54. (a) State any one way how prop roots are useful to a maize plant.
- (b) Give any two uses of roots to people.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) Name the food value got from eating soya beans.
55. (a) Apart from row planting, give one other method of planting crops.
- (b) Give two advantages of row planting to a cassava farmer.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) State any one reason why farmers are advised to carryout seed selection before planting.