



# THE PRIME EXAMINATIONS 2024

## P.7 SPECIAL EXAMINATIONS

### INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

PRIME CODE

INDEX NO: 

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Candidate's Name: .....

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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 9 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 (PEC)

PUBLISHERS OF: -

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Kampala

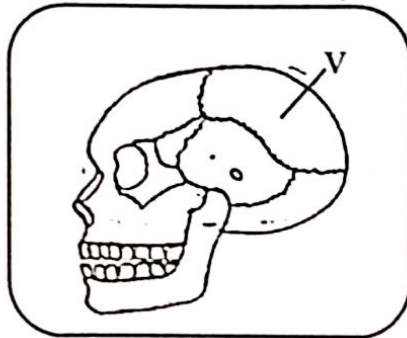
Turn Over



### Section A (40 Marks)

1. Name the type of clouds which are a good sign of fine weather.
2. Give any one way how kinetic energy is useful to human beings.
3. State any one use of the sun to man as a resource.
4. Give any one way how adolescents can care for their body organs.
5. Which type of fertilisation do tortoises undergo?

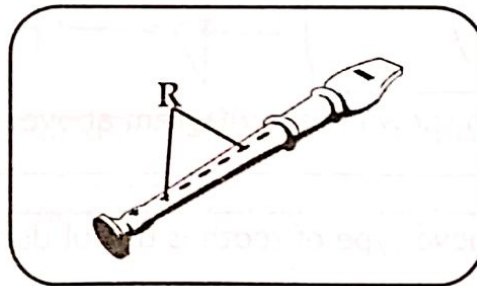
The diagram below shows the skull of a human being. Study and use it to answer questions 6 and 7 correctly.



6. Name the body organ protected by part V from the diagram above.
7. Give any one antisocial behaviour that affects the normal functioning of the organ named in (6) above.
8. Apart from determining skin and hair colour, state one other use of melanin in the body of human beings.
9. Which bacterial disease affects babies at birth when the umbilical cord is cut with unsterile contaminated instrument?
10. Give any one indicator of poor sanitation in a home.

11. State the use of salivary amylase found in the mouth of humans.  
\_\_\_\_\_
12. Why do health workers use alcohol to disinfect clinical thermometers?  
\_\_\_\_\_
13. Give the disadvantage of fixing electric wires on poles when tight.  
\_\_\_\_\_
14. State the use of haemoglobin in red blood cells.  
\_\_\_\_\_
15. Give any one way how wind helps in the drying of clothes after washing.  
\_\_\_\_\_

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



16. Name the musical instrument shown above.  
\_\_\_\_\_
17. State the function of the parts marked R from the diagram above.  
\_\_\_\_\_
18. Give one way in which the washing of hands with clean water before eating food helps to control the spread of diarrhoeal diseases.  
\_\_\_\_\_
19. Mention the germs which cause malaria to people.  
\_\_\_\_\_
20. Give any one social factor that leads to alcoholism.  
\_\_\_\_\_
21. Name any one device that uses solar energy to work.



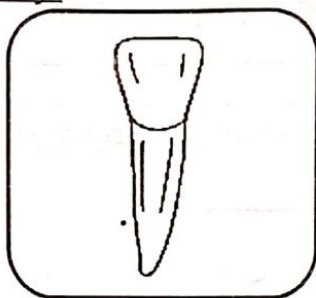
22. Give any one way in which immunization is important in a community.

23. State any one way of preventing ectopic pregnancy in humans.

24. Give any one advantage of breastfeeding to a mother.

25. Name the type of leaf venation possessed by wheat plants.

The diagram below shows a type of tooth. Study and use it to answer questions 26 and 27 correctly.



26. Identify the type of tooth shown in the diagram above.

27. Give one way how the above type of tooth is useful during digestion.

28. How are algae similar to bacteria in terms of reproduction?

29. Give any one life skill that can safeguard adolescents from acquiring HIV.

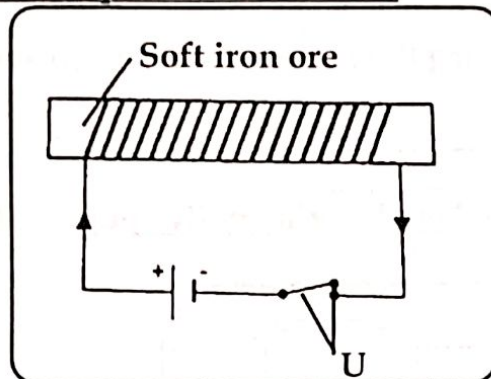
30. State the reason why first and second-class levers are referred to as force multipliers.

31. Name the pandemic disease prevented by using AstraZeneca vaccine.

32. Give any one importance of air to the soil.

33. State the reason why worker bees are referred to as sterile female bees in the hive.
34. In which one way are guardrails useful on a pig sty?
35. State any one cause of road traffic accidents.

The diagram below shows a method of making temporary magnets. Study and use it to answer questions 36 and 37.



36. Name the method of making magnets shown above.
37. What will happen to the soft iron ore when part marked U is open?
38. State any one adaptation of a strip cup to detecting mastitis in milk.
39. Name the substance that exists in all the three states of matter.
40. How do legumes help in maintaining soil fertility in the crop rotation cycle?

### Section B (60 Marks)

41. (a) State one function of the following substances found in the nose during inspiration;
- (i) Cilia.
- (ii) Mucus.



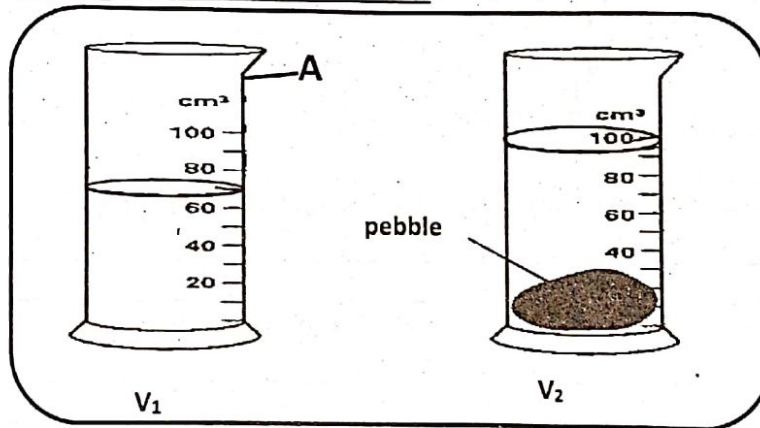
- (b) Give a reason for pinching the soft part of the nose in case of nosebleeds.
- (c) State one reason why a normal person is not advised to breathe through the mouth.

42

- (a) Name the process through which plants make their own food in the environment.
- (b) Give two ways how animals benefit from the process named in (a) above.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) State the disadvantage of leaving the pieces of wood uncovered during charcoal making.

43.

The experiment below was carried out by primary five pupils. Study and use it to answer questions that follow.



- (a) Give the use of container A from the diagram above.
- (b) Calculate the volume of the irregular object.

(3marks)

44 (a) Name the force that opposes motion between two objects in contact.




(b) State any two ways how the force mentioned in (a) above is useful to people.

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

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

(c) Give any one danger of driving cars with worn out tyres on muddy roads.

45. The table below shows examples of different arthropods. Study and use it to answer questions that follows.

|  |  |  |
|--|--|--|
| Q<br> | R<br> | S<br> |
|--|--|--|

(a) To which group of arthropods does animal Q belong?

(b) Give any two characteristics common in all animals shown above.

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

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

(c) How is arthropod R different from the rest in terms of reproduction?

46 (a) Which mineral salt prevents the following deficiency diseases?

(i) Rickets: \_\_\_\_\_

(ii) Goitre: \_\_\_\_\_

(b) State any two signs of malnutrition among infants.

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

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

47 (a) Apart from tethering, mention two other methods of rotational grazing of cattle.

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

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

(b) Give any two disadvantages of tethering grazing of cattle.

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

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



48

(a) Name the organs responsible for filtering blood in the body of human beings.

(b) State any one way how the skin regulates the body temperature on the following conditions;

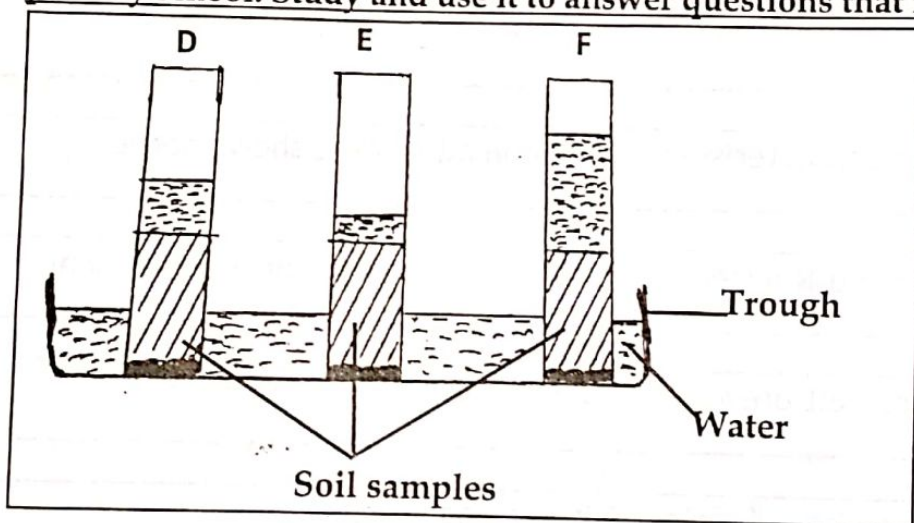
(i) Cold days.

(ii) Hot days.

(c) Why are lungs grouped among excretory organs?

49.

The experiment below was carried out by P.5 pupils of Elgon nursery and primary school. Study and use it to answer questions that follow.



(a) What is the experiment shown in the diagram above about?

(b) Name soil sample D and E from the experiment above.

(i) D

(ii) E

(c) Why is the glass tube with soil sample F having more water than the rest?



50. (a) Give the meaning of the term **germination**.

(b) Name the **two** types of germination.

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

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

(c) State the use of cotyledons to a bean seed during germination.

51. **Match the following parts of the human eye in A to their functions in B.**

| A               | B   |
|-----------------|---|
| (i) Pupil       | <i>controls the amount of light entering the eye.</i>           |
| (ii) Iris       | <i>lets enough light in the eye.</i>                            |
| (iii) Retina    | <i>prevent water and other particles from entering the eye.</i> |
| (iv) Eye lashes | <i>is where the image is formed in the eye.</i>                 |

(i) Pupil

(ii) Iris

(iii) Retina

(iv) Eye lashes

52. Give any **two** activities involved in the following elements of PHC;

(a) *Food hygiene and nutrition.*

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

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

(b) *Personal hygiene.*

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

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

53. (a) State any **two** structural differences between beef and dairy cattle.

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

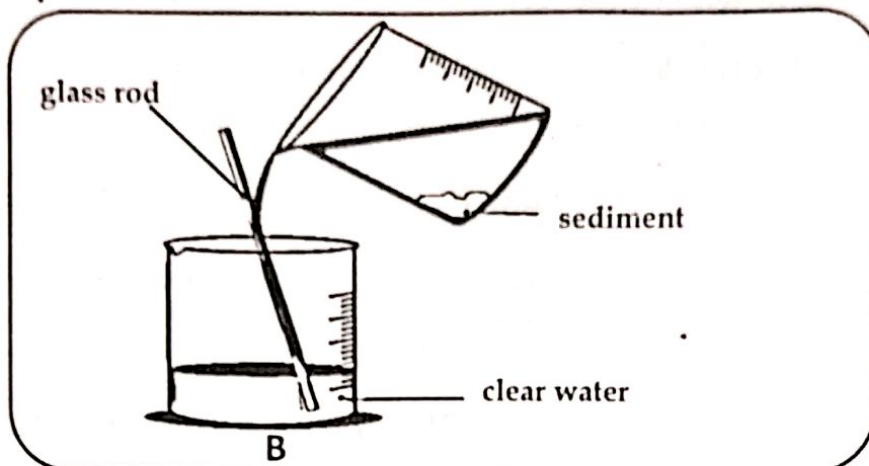
(ii) \_\_\_\_\_

(b) Apart from meat, give two other products got from beef cattle.

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

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

54. The diagram below shows a method of obtaining clean water. Study and use it to answer questions that follow.



(a) Name the method of getting clean water shown above.

\_\_\_\_\_

(b) Why is water obtained in container B not good for drinking?

\_\_\_\_\_

(c) Give any two ways of making water in container B safe for drinking.

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

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

55. (a) State the main cause of short circuits.

\_\_\_\_\_

(b) Give any two effects of short circuits in our homes.

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

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

(c) Give any one way of preventing short circuits.

\_\_\_\_\_

\_\_\_\_\_

