

# THE PRIME SPECIAL EXAMINATIONS 2023

## INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

INDEX NO:	Random No.	Personal No.

PRIME CODE

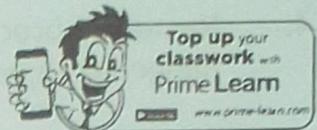
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Candidate's Name: .....

Candidate's Signature: .....

School Random No. ....

District ID: .....



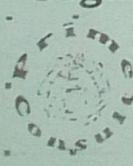
**Read the following instructions carefully:**

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		

<b>APPROVED:</b>  Consultant Integrated Science Department (PEC)
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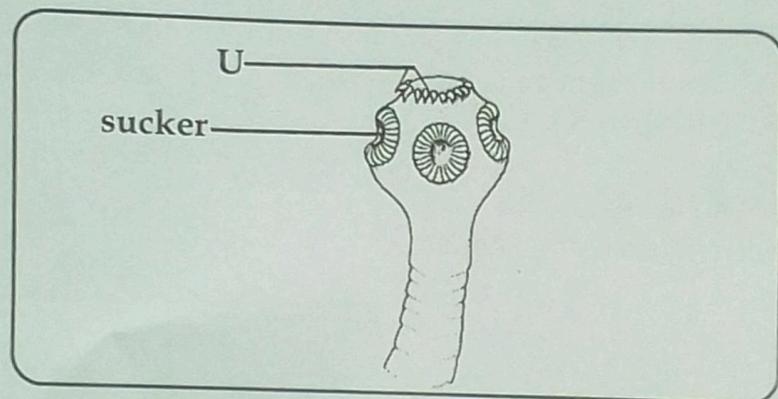
Turn Over

THE PRIME; SCHEMING FRAMEWORKS, HOLIDAY PACKAGES, LEARNING GAMES,  
LESSON COURSE BOOKS AND PUPILS' WORKBOOKS

**Section A (40 Marks)**

1. Name the outer protective layer of the human skin.  
\_\_\_\_\_
2. State any one effect of accidents to man.  
\_\_\_\_\_
3. Give one reason why poultry farmers rear dual purpose chicken.  
\_\_\_\_\_
4. Name the process by which heat from the sun reaches people's washed clothes hanged on a wire.  
\_\_\_\_\_

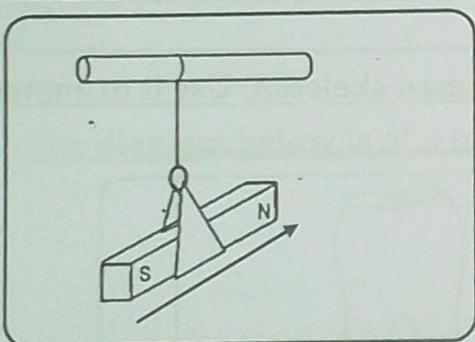
The diagram below shows a structure of a worm use it to answer questions 5 and 6.



5. Name part marked U from the diagram above.
6. To which group of worms do we categorize the worm shown in the diagram above?  
\_\_\_\_\_
7. How do plants contribute to the rain cycle?  
\_\_\_\_\_
8. Which breed of cattle is characterized by having short or no horns?  
\_\_\_\_\_

9. State one law of refraction.
- 
10. Give the importance of putrifying bacteria to a crop farmer.
- 
11. What happens when an object vibrates?
- 
12. Name the immunisable disease spread by cockroaches to people.
- 
13. Why are toads regarded as cold blooded animals?
- 
14. Apart from meat, name one other product got from Angora rabbits.
- 

The diagram below shows the property of magnets. Use it to answer questions 15 and 16.



15. Name the property of magnets shown in the diagram above.
- 
16. How is the property of magnets named in (15) above useful to pilots in doing their daily work?
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17. Give any one responsibility of the family members to a pregnant woman.
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18. Why should vaccines be kept in cool containers before usage?

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19. State the use of a dustbin when promoting proper sanitation.

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20. Give any one effect of diarrhoea to human beings.

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21. Name any one respiratory disease caused due to smoking tobacco.

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22. How is friction useful to Aaron who is a butcher?

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23. Which vitamin maintains the appetite of a human being?

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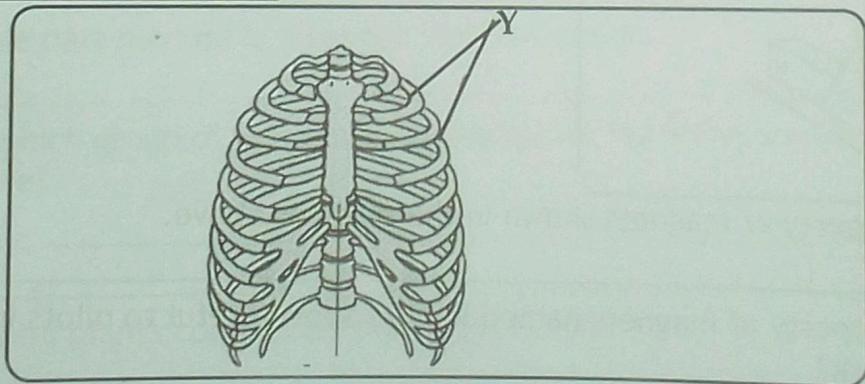
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24. State one adaptation of red blood cells to their function.

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The diagram below shows part of the human skeleton. Use it to answer questions 25 and 26.



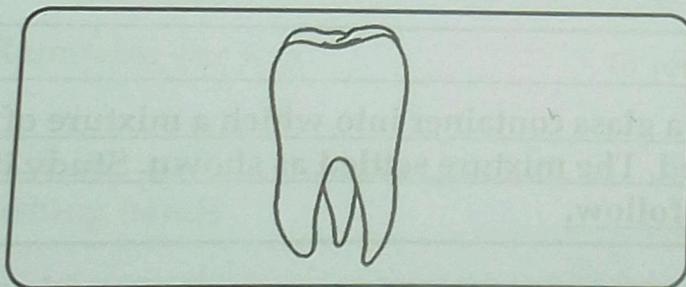
25. Name the type of bones marked Y from the diagram above.

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26. How are bones marked **Y** above important to the body?  
\_\_\_\_\_
27. To what type of change is melting of candle wax?  
\_\_\_\_\_
28. Give **one** disadvantage of draining swamps to the environment.  
\_\_\_\_\_
29. Name the force that makes objects weigh less in water.  
\_\_\_\_\_
30. State the use of perches to fowls in a coop.  
\_\_\_\_\_
31. Give **one** way of preventing the spread of Covid 19.  
\_\_\_\_\_
32. Mention **one** plant growth requirement absorbed from the soil through the roots.  
\_\_\_\_\_
33. Which type of electricity is generated by the help of fast flowing water?  
\_\_\_\_\_
34. Give a reason why vitamins and mineral salts are not digested in the body.  
\_\_\_\_\_

**The diagram below is of a tooth. Use it to answer questions 35 and 36.**



35. Name the **type of tooth** shown in the diagram above.

36. State the importance of the tooth named in (35) above.

37. Name the part of the lungs where gaseous exchange takes place.

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38. State the first aid for scalds.

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39. Give any one factor that can lead to bottle feeding a baby.

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40. Which type of family has the parents, biological children and relatives?

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#### Section B (60 Marks)

41. (a) Give two ways how animals can be used as energy resources.

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

(b) Mention any two animal products used when producing biogas.

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

42. (a) Give two responsibilities of the following in promotion of PHC in the community.

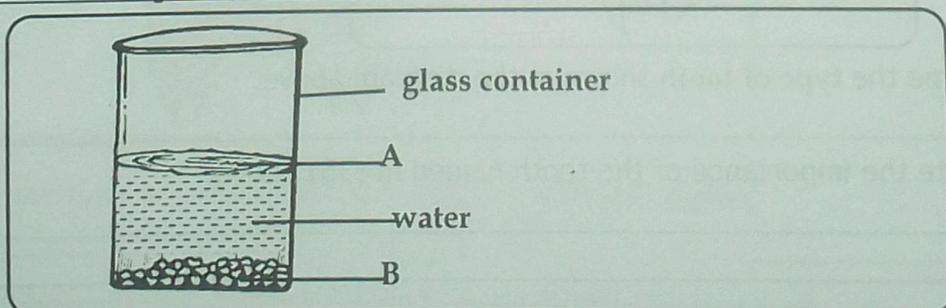
(i) Individuals

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

(ii) Family

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

43. The diagram below shows a glass container into which a mixture of saw dust, water and sand were poured. The mixture settled as shown. Study it carefully and answer questions that follow.



- (a) Which of the two substances are represented by;  
(i) A \_\_\_\_\_ (ii) B \_\_\_\_\_  
(b) Name the method of separating mixtures shown in the diagram above.  
(c) Why is substance A settled on water?  
\_\_\_\_\_

44. (a) How do ferns reproduce?

(b) Mention two plants that reproduce in the same way like ferns.

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

(c) Give a reason why mushrooms are not classified as plants.  
\_\_\_\_\_

45. Match the following ways of promoting personal hygiene in A to their importance in B.

A

- (i) Washing hands  
(ii) Brushing teeth  
(iii) Cutting finger nails short  
(iv) Removing ear wax.

B

- to remove hiding places for germs.  
to prevent partial deafness.  
to kill germs in the mouth.  
to remove germs.

- (i) Washing hands  
(ii) Brushing teeth  
(iii) Cutting finger nails short  
(iv) Removing ear wax

46. (a) How do inclined planes simplify work?

(b) If the load moves through a length of 200m on an inclined plane of height 40m, find the mechanical advantage. (03 marks)

47. (a) Give any two dangers of poor sanitation.

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

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

(b) Mention two diseases spread due to poor sanitation.

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

48. (a) Give the meaning of the following terms.

(i) Health

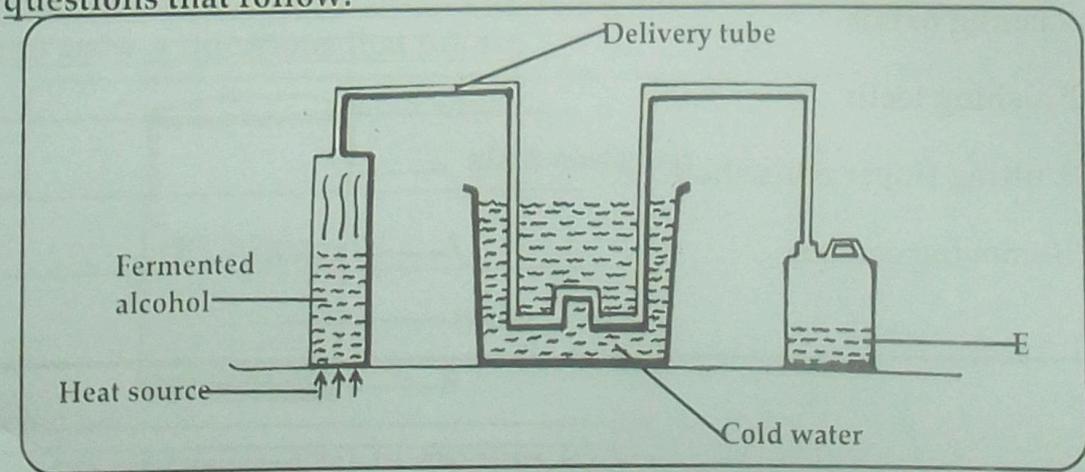
(ii) Community

(b) Mention any two examples of common health problems in the community.

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

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

49. The diagram below shows a method of making methyl. Use it to answer questions that follow.



(a) Name the method of making alcohol shown in the diagram above.

(b) Which name is given to substance E?

(c) Why is a delivery tube coiled in water?

(d) State the reason why the above method of making alcohol is not allowed at home.

50. (a) Name two examples of;

(i) dairy breeds of goats

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

(ii) meat breeds of goats

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

51. (a) Give a reason why land preparation is done during dry season.

(b) Write down any two ways of preparing land.

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

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

(c) Why is bush burning discouraged during land clearing?

52. (a) Give any two emotional changes in adolescents.

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

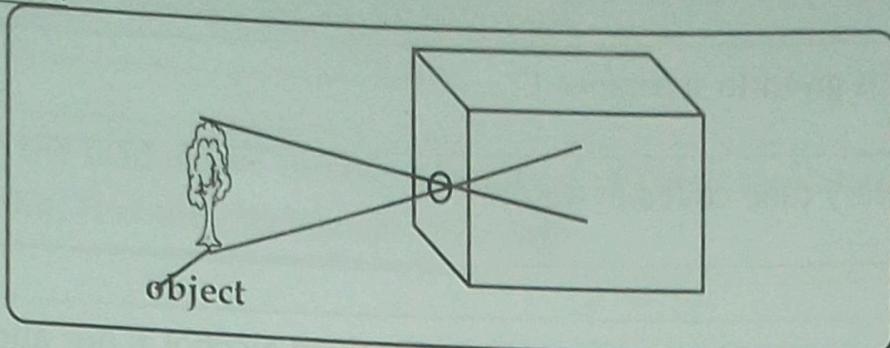
(ii) \_\_\_\_\_

(b) Name two types of reproduction in living organisms.

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

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

53. The diagram below shows a pinhole camera. Use it to answer questions that follow.



(a) State the principle on which a pinhole camera works.

(b) Give two characteristics of images formed by a pinhole camera.

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

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

(c) Complete the pinhole camera shown in the diagram above by drawing the image formed.

54. (a) Name any two types of soil erosion.

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

(b) How does mulching control soil erosion?

(c) State the best way of controlling soil erosion in hilly areas.

55. Write PIASCY in full.

(b) State the main reason for establishment of PIASCY.

(c) Give any two PIASCY messages.

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

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