



# THE PRIME EXAMINATIONS 2024

## P.7 BEGINNING OF TERM II

### INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

INDEX NO:

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Candidate's Name:.....

Candidate's Signature:.....

School: .....

District ID No.: .....

#### 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 (PEC)

PUBLISHERS OF:-

THE PRIME; SCHEMING FRAME WORKS, PUPILS' WORKBOOKS, LESSON COURSE BOOKS,  
HOLIDAY PACKAGES, LEARNING GAMES AND MORE...

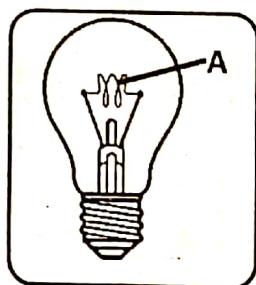
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Turn Over

### Section A (40 Marks)

1. Name any one mineral salt that is needed in our bodies for strengthening bones.
2. Apart from alcohol, give one other example of a thermometric liquid.
3. How is *rusting* similar to *germination* in the way they occur?
4. Which piece of advice can you give to a woman whose child has taken rat poison?
5. Give any one way how proper chewing of food can be a good eating habit.

**The diagram below shows an electric bulb. Study it carefully to answer questions 6 and 7.**



6. Why is part labelled A from the diagram above coiled?
7. State the energy changes that occur in the above electric bulb when in use.
8. How does mulching help to preserve soil moisture?
9. Name the main product farmers get from merino sheep.
10. Give the functional difference between *cotyledons of maize* and *beans* during germination.

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11. Apart from toe pecking, give one other example of cannibalism in poultry.

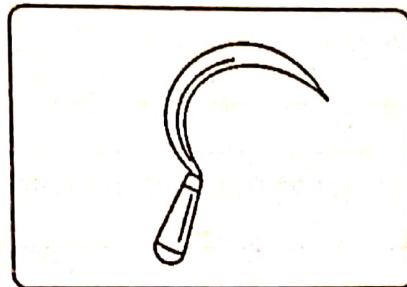
12. Give the use of the black lining found in solar dryers.

13. State any one way how proper disposal of rubbish prevents the spread of diarrhoeal disease in a home.

14. How can community members prevent drought in an area?

15. Mention one infectious disease that attacks the muscular - skeletal system.

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



16. Name the garden tool shown in the diagram above.

17. How is the garden tool named in (16) above useful to cattle farmers?

18. Write any one example of a PIASCY message.

19. How are petals useful to a flower?

20. Why is it not advisable to put out petrol fire using water?

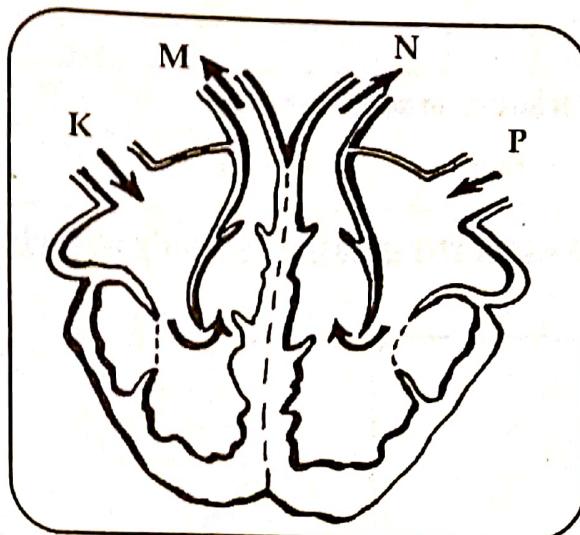
21. Write one example of wood fuel commonly used in homes.

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- WARNING: Not to be reproduced electronically!!**
22. State the importance of the liver during the process of digestion of fats.
23. Give any one method of making alcohol.
24. State one similarity between *birds* and *reptiles* in terms of reproduction.
25. Which part of the skeleton protects the brain?
26. State the property of air used when inflating a tyre.
27. Give one use of electricity at home.
28. Give one danger of swamp drainage to the environment.
29. Name the type of fracture that is very common among young children.
30. Why should one first wash hands with soap and clean water before making O.R.S?
31. In which way are banana crops propagated?
32. State the reason why a space is left in a bottle when packaging beverages.
33. Name any one bacterial disease that attacks cattle.
34. How does hookworm infestation cause anaemia?

42. (a) Mention any two examples of appliances that operate using electricity at home.  
(i) \_\_\_\_\_ (ii) \_\_\_\_\_  
(b) State two advantages of using electricity.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_

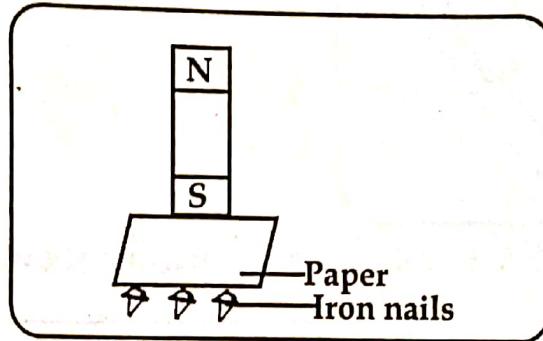
43. The diagram below shows a human heart. Study it carefully and use it to answer the questions that follow.



- (a) Identify the blood vessels marked K and P from the diagram above.  
(i) K \_\_\_\_\_ (ii) P \_\_\_\_\_  
(b) Give the function of blood vessel M in the human body.  
\_\_\_\_\_  
\_\_\_\_\_  
(c) State one health practice that helps to maintain the above organ in a good working condition.  
\_\_\_\_\_  
\_\_\_\_\_
44. (a) Apart from carrots, mention two examples of root tubers.  
(i) \_\_\_\_\_ (ii) \_\_\_\_\_  
(b) Which vitamin do we get from eating carrots?  
\_\_\_\_\_  
\_\_\_\_\_  
(c) State one reason for washing carrots before eating when raw.  
\_\_\_\_\_  
\_\_\_\_\_

- WARNING: Not to be reproduced electronically!!**
35. State one method of controlling weeds in the garden.
36. Why is biogas digester sealed tightly when making biogas?
37. Apart from introducing fish in ponds, how else can we prevent the breeding of Mosquitoes.
38. Name the method of heat transfer in solid metals.

**The diagram below shows a property of magnets. Study it carefully to answer questions 39 and 40.**



39. Identify the property of magnets shown above.

40. State any one application of the above property of magnets.

#### **Section B (60 Marks)**

41. (a) Name the best type of soil used for the following purposes.

(i) Making glasses

(ii) Growing crops

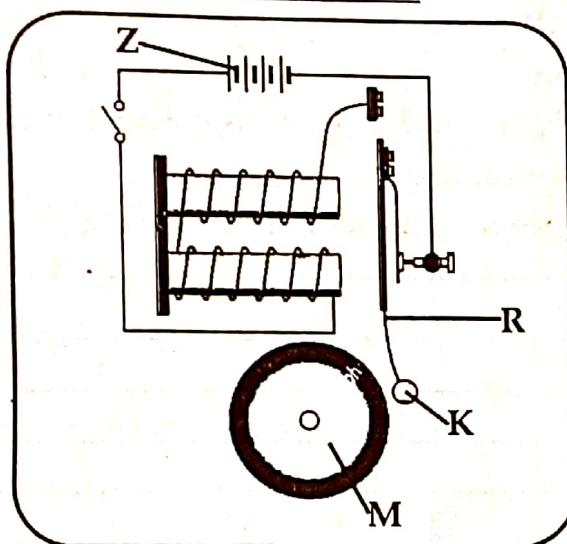
- (b) Give any two ways of improving soil fertility in the environment.

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

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

- WARNING: Not to be reproduced electronically.**
45. (a) Give any two causes of road traffic accidents.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_
- (b) State any one reason for giving first aid to accident victims.  
\_\_\_\_\_
- (c) How is surgical spirit important in giving first aid to a victim with a cut on the skin?  
\_\_\_\_\_

46. The diagram below shows an electric bell. Study it carefully and use it to answer the questions that follow.



(a) Identify the parts labelled M and Z above.

(i) M \_\_\_\_\_ (ii) Z \_\_\_\_\_

(b) State the function of part K on an electric bell.

\_\_\_\_\_

(c) Which form of energy is produced by an electric bell in use?

\_\_\_\_\_

47. (a) Give the meaning of the following physical processes;

(i) Evaporation.

\_\_\_\_\_

(ii) Condensation

\_\_\_\_\_

**(b) Mention two factors that affect the rate of evaporation.**

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

**48. (a) Identify the disease spread by the following vectors.**

- (i) Rabid dogs \_\_\_\_\_

- (ii) Infected female anopheles mosquito \_\_\_\_\_

**(b) State the reason for carrying out the following health practices.**

- (i) Slashing tall grass in the compound.  
\_\_\_\_\_

- (ii) Draining still water in the compound.  
\_\_\_\_\_

**49. Match the items in A to those in B correctly as used in drugs.**

(i) Drug abuse	Written information about how to use a particular drug.
(ii) Drug misuse	Relying on drugs for body functioning.
(iii) Drug Prescription	Harmful use of a drug.
(iv) Drug dependency	Improper administration of drugs.

(i) Drug abuse. \_\_\_\_\_

(ii) Drug misuse. \_\_\_\_\_

(iii) Drug Prescription \_\_\_\_\_

(iv) Drug dependency \_\_\_\_\_

**50. (a) State one way how the following fungi are useful in industries.**

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

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

(b) Give one danger of fungi in the environment.  
\_\_\_\_\_

(c) How do fungi reproduce?  
\_\_\_\_\_

51. (a) Write any two examples of long bones found in the lower limbs.

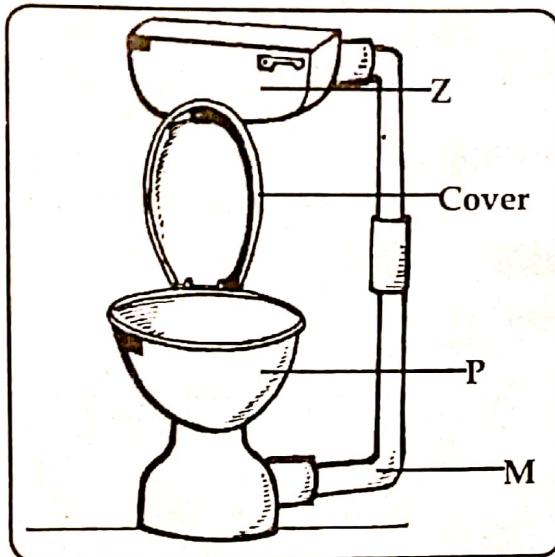
(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) Which movable joint is found in the following body parts;

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

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

52. The diagram below shows a type of toilet. Use it to answer questions that follow.



(a) Name the parts marked Z and M.

(i) Z \_\_\_\_\_ (ii) M \_\_\_\_\_

(b) State the use of part Z on the above type of toilet.

\_\_\_\_\_

\_\_\_\_\_

(c) Use an arrow and letter R to show the part where the user sits when using the above toilet.

53. (a) Write down any two breeds of goats kept for milk production.

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

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

(b) Give one way how goat farmers can increase milk production in a lactating nanny.

\_\_\_\_\_

\_\_\_\_\_

(c) State any one reason why some farmers prefer rearing goats to cattle.

\_\_\_\_\_

\_\_\_\_\_

54. (a) Give a reason why a tadpole dies shortly after being removed from water.

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(b) How are fish similar to tadpoles in terms of breathing?

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(c) Give any two uses of fish to man.

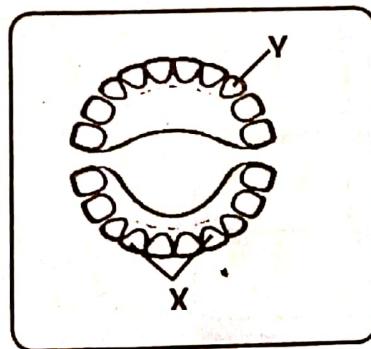
(i) \_\_\_\_\_

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

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55. The diagram below shows dentition of a human being. Study and use it to answer questions that follow



(a) Name the set of teeth shown in the diagram above.

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(b) Identify the type of teeth labelled with letter X above.

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(c) State the use of tooth Y from the diagram above.

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(d) Give any one way of caring for the teeth.

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