



# The PRIME EXAMINATIONS 2023

## P.7 PRE – PLE MAGIC SET IV

### INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

INDEX NO:

Random No.

Personal 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:

*[Signature]*

Consultant

Integrated Science Department (PEC)

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Turn Over

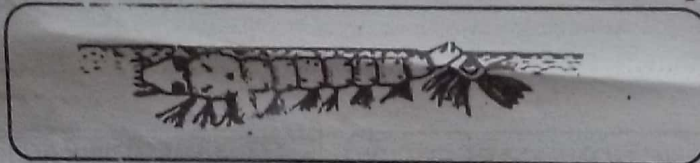


### Section A (40 Marks)

1. Name the poison introduced into the body through **snake bites**.
2. Give a reason why some poultry farmers rear **table birds**.
3. Which part of the urinary system transports urine from the kidneys to the urinary bladder?
4. How do insulators prevent short circuits in an electric appliance?

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Study the diagram below and use it to answer questions 5 and 6.



5. Name the type of mosquito whose larvae is shown in the diagram above.
6. Which disease is spread to man by the mosquito named in (5) above.
7. State the use of a **barometer** to meteorologists.
8. Give any one effect of **ticks** to cattle.
9. State the principle under which the **lens camera** works.
10. Name the **fungal infection** characterized by flat patch of the itchy skin and overlapping rings.

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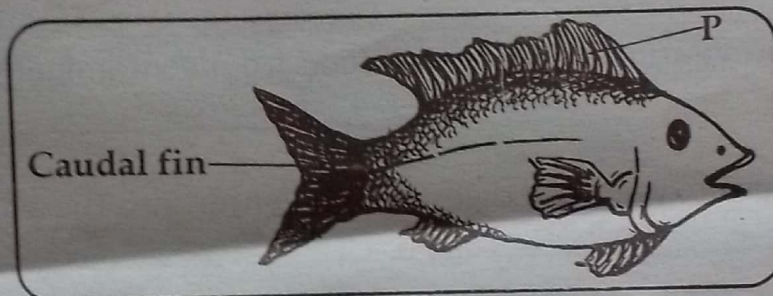
11. Give the main reason for hardening off seedlings.

12. How is the **operculum** of a fish similar to the **hard shell** of a snail?

13. Name any **one** type of a rabbit hutch.

14. How is a **cochlea** of the human ear adapted to its function of converting sound vibrations into nerve messages?

The diagram below is of a fish. Use it to answer questions that follow.



15. How is part **marked P** useful to a fish while in water?

16. To which class of animals do we group the fish shown in the diagram above?

17. What happens to the mass of a liquid when it changes to ice?

18. How does alloying of metals prevent rusting?

19. Name any **one** craft item got from sisal.



20. If the mass of a brick is 20g and the volume is  $5\text{cm}^3$ , find its density.

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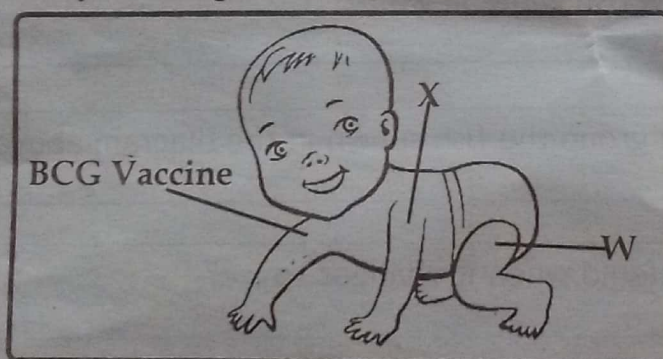
21. Which type of record shows the number of eggs collected daily on a poultry farm?

22. Name the worm that causes river blindness to people.

23. Give one way of preventing boiled served food from contamination.

24. By what process does oxygen and digested food enter into the blood stream?

Study the diagram below and use it to answer questions 25 and 26.



25. Name the other childhood immunisable disease immunised against at site X.

26. Mention any one vaccine given to babies at site W.

27. Why should a person suffering from diarrhea be given plenty of drinks?

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28. Give a reason for keeping drugs in a cool dry place.

29. State one advantage for using single movable pulleys over single fixed pulleys.

30. Give any one symptom of meningitis in infants.

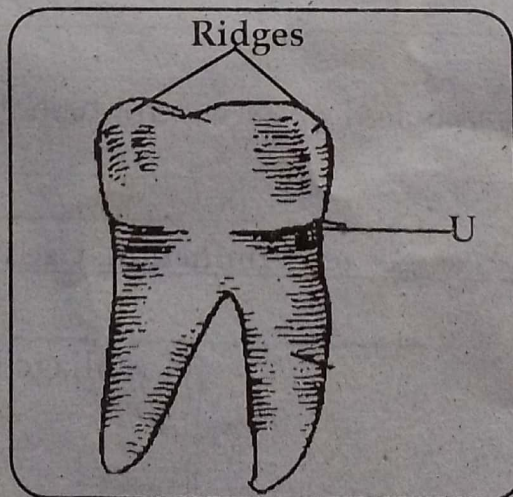
31. Write AIDS in full.

32. Name one tuber crop propagated by planting seeds.

33. State the use of dentist amalgam to a dentist.

34. Which disease of the digestive system is characterized by too much pain in the lower side or the abdomen?

The diagram below shows a structure of a tooth. Use it to answer questions 35 and 36.



35. Name the region of the tooth marked with letter U from the diagram.

36. How is the above tooth adapted to its function of grinding food?



37. Name the bad lifestyle that may result into lung cancer.

38. How are slips or crowns useful to a pineapple farmer?

39. Give any one cause of nose bleeding.

40. At what age is weaning of babies recommended?

Section B. (60 Marks)

41. (a) Name the method used for separating different petroleum products at a refinery.

(b) Mention any two examples of fossil fuels.

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

(c) Why is petrol regarded as a nonrenewable resource?

42. (a) Which element of PHC is promoted by fencing water sources?

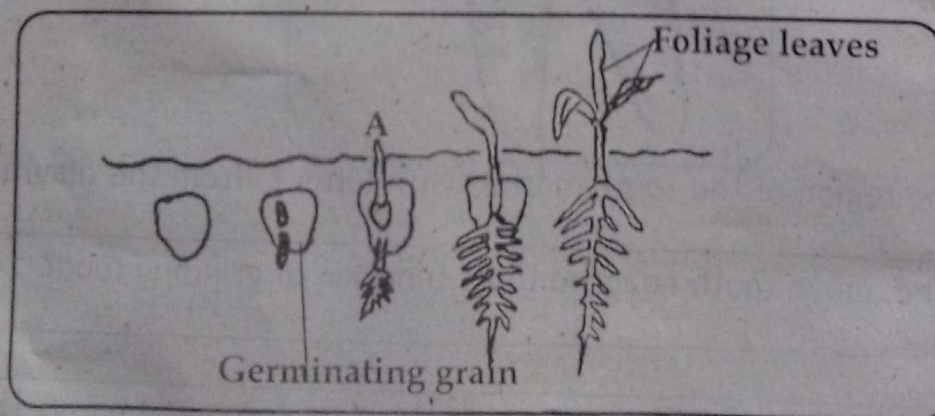
(b) Give any two other activities done to promote the element of PHC mentioned in (a) above besides fencing.

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

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

(c) How does drinking clean boiled water control typhoid?

43. The diagram below shows stages of germination. Use it to answer questions that follow.





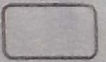
(a) Name stage marked A from the diagram above.

(b) Which type of germination is shown in the diagram above?

(c) Mention any two examples of plants that undergo the type of germination shown in the diagram above.

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

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



44. (a) Give one way how conveyor belts are important in the following.

(i) Cars:

(ii) Dairy industries

(b) State any two importance of gears wheels as machines.

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

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

45. (a) Give a reason why farmers keep the following breeds of goats.

(i) Saanen goats:

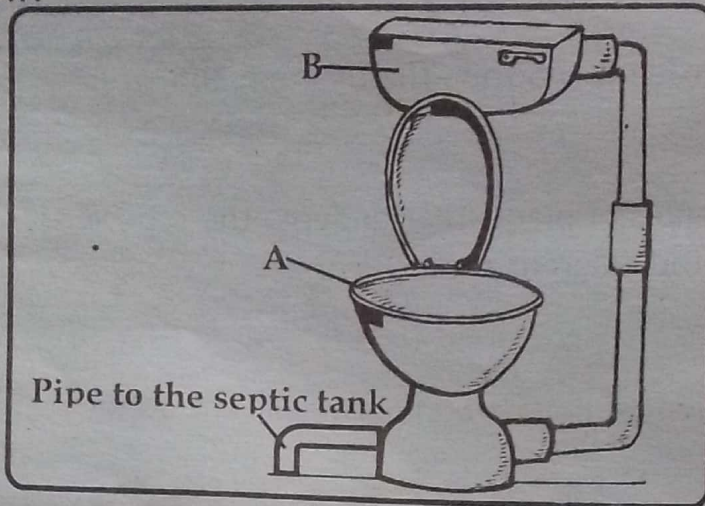
(ii) Boar goats.

(b) Name the product obtained from Angora goats used in textile industries.

(c) How can a farmer improve on the quantity of meat in Somali goats?



46. The diagram below is of a type of toilet. Use it to answer questions that follow.



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- (a) Which type of toilet shown in the diagram above?

- (c) Name parts marked A and B from the diagram above.

(i) A: \_\_\_\_\_ (i) B: \_\_\_\_\_

- (c) State the use of cesspool emptier to people.

47. (a) Give the meaning of the term energy.

- (b) In which units is energy measured.

- (c) Name the two types of mechanical energy.

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

48. Match the sexual deviations to their meanings.

Sexual deviation	Meaning
Bestiality	sexual relationship between males.
Gayism	sexual activity between closely related persons.
Lesbianism	sexual activity between a person and an animal.
Incest	is the sexual activity between females.
(i) Bestiality	_____
(ii) Gayism	_____
(iii) Lesbianism	_____
(iv) Incest	_____



49. (a) Give a difference between **hard water** and **soft water**.

(b) Mention any one mineral that makes water hard.

(c) State two ways of making hard water soft.

(i)

(ii)

50. (a) Name the method of castration that involves the use of a **burdizzo**.

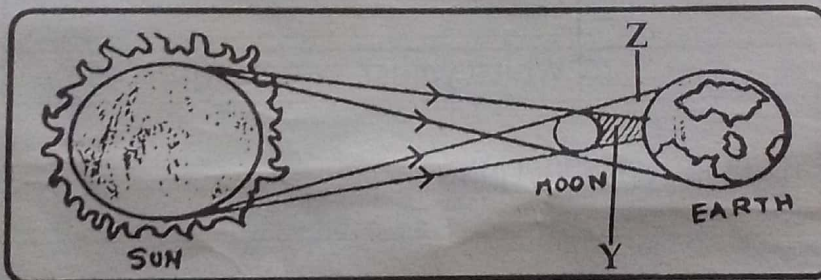
(b) Give any two reasons for castrating a **billy goat**.

(i)

(ii)

(c) How can castration of goats lead to anaemia?

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



(a) Name the type of eclipse shown in the diagram above.

(b) Identify the shadows marked with Y and Z.

(i) Y: \_\_\_\_\_ (ii) Z: \_\_\_\_\_

(c) Why is the shadow formed on the earth?

52. (a) Who is an alcoholic?

(b) Give any two reasons why some people take alcohol.

(i)

(ii)



(c) Name any one body organ affected by taking alcohol frequently.

53.

(a) Give any two agents of soil erosion.

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

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

(b) How do the following cause soil erosion;

(i) Overgrazing:

(ii) Bush burning:

54.

Study the table and complete it correctly.

	Method of harvesting.	Crop harvested
(a)	Cutting stems	_____
(b)	_____	Coffee/oranges/ tomatoes
(c)	Uprooting	_____
(d)	_____	White yams/ sweet potatoes

55.

(a) What is **ovulation** as used in reproduction?

(b) In which part of the female reproductive system does ovulation take place?

(c) Mention any two factors that may interrupt menstruation in females.

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

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



#### REVISION TIPS

"Attend revision classes when they are given by teachers. They will help you cover topics you missed and understand better the areas you are still not sure about."