



THE PRIME EXAMINATIONS 2024

P.6 END OF TERM I INTEGRATED SCIENCE

Time allocated 2 hours 15 minutes



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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- This paper has two sections: A and B. Section A has 40 questions (40 Marks) and Section B has 15 questions. (60 Marks)
- Answer ALL questions. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- Do not fill anything in the table indicated
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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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THE PRIME: SCHEMING FRAMEWORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

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Turn Over

SECTION A (40 MARKS)

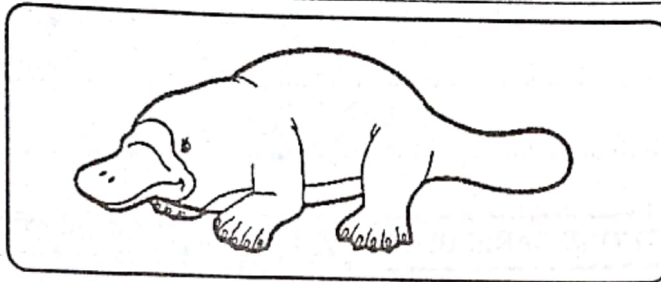
1. Name the domestic fowl which is grouped among swimming birds.

2. State the importance of haemoglobin in red blood cells.

3. Identify the type of teeth in man with a chisel shape.

4. Give one reason why poultry farmers carry out culling on the farm.

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



5. To which group of mammals does the one in the diagram above belong?

6. How does the mammal shown in the diagram above reproduce?

7. Name the force that pulls back objects to the centre of the earth.

8. Why are echoes reduced using soft porous materials in cinema halls?

9. Name any one type of blood circulation.

10. Give one reason why animals make sound.

11. Identify any one physical process involved in the distillation method of making alcohol.

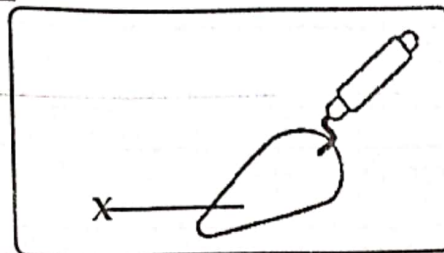
12. Why does fish die shortly after being removed from water?

13. Name any one germ that causes dysentery in people.

14. State the importance of sticky tongue to a frog.

15. Which method of making alcohol involves the use of sugar and yeast?

WARNING: Not to be reproduced electronically
Study the diagram of a garden tool below and use it to answer questions 16 and 17.



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

17. What can happen to part X if the tool is left outside the house for 3 days?

18. Give one adaptation of the gill filaments to their function.

19. *Apart from recording sound*, give one other way of storing sound.

20. At what age is the measles vaccine given to infants?

21. Give any one property of air.

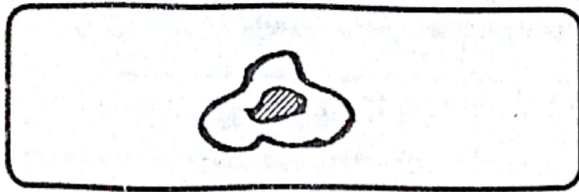
22. Name the biggest vein in the body of humans.

23. State the importance of the mucus found on the body of tapeworms.

24. Why does water drain faster in sand soil than clay soil?

25. Give a reason why mushrooms cannot make their own food.

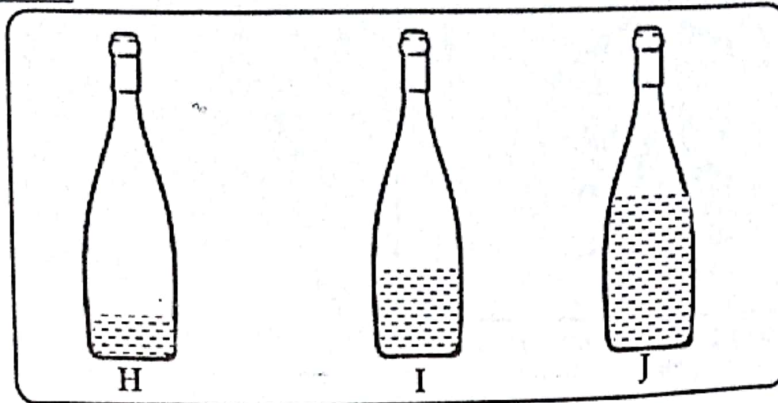
Study the diagram below and use it to answer questions 26 and 27.



26. Name the component of blood shown in the diagram above.
27. Give the function of the above blood cell in the body of humans.
28. Which part of a maize grain stores food for the germinating embryo?
29. How is a bathroom useful in a home?
30. Give any one characteristic of arthropods.
31. Which part of the skeletal system protects the heart?
32. Give any one way of saving wood fuel in a home.
33. State one importance of sound in the environment.
34. How do poultry farmers benefit from shells of snails?
35. Give the use of soap in promoting personal hygiene.
36. Identify one place where a soil profile can easily be viewed.
37. Name one type of alcohol.
38. Which element of PHC helps people to control malnutrition in their homes?
39. Why are reptiles grouped among cold blooded vertebrates?
40. State the use of a wind sock at a weather station.

Section B (60 Marks)

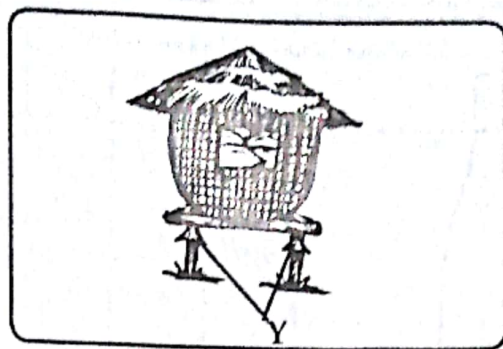
41. The diagram below shows bottles of the same size but with different amount of water.



- (a) Identify the bottle from the above which will produce the highest pitch of sound when one blows in air.
- (b) Give a reason to support your answer in (a) above.
- (c) State two factors that affect the pitch of sound.
- (i) _____
- (ii) _____
42. Mention two examples of;
- (i) chemical changes _____ (ii) _____
- (i) biological changes _____ (ii) _____
43. (a) Name any one example of birds of prey.
- (b) How are the following parts useful to the birds of prey.
- (i) sharp hooked beak _____
- (ii) good eye sight _____
- (iii) strong curved claws. _____
44. (a) Give any two causes of cannibalism in poultry.
- (i) _____
- (ii) _____
- (b) State two ways of controlling cannibalism in poultry.
- (i) _____
- (ii) _____

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45. The diagram below is of granary. Use it to answer questions that follow.



- (a) Name the structures marked Y from the diagram above.
- (b) State the importance of the structures marked Y from the diagram above.
- (c) Why is it important to dry crops properly before putting them in the granary?

(d) Name the group of pests that attack harvested crops when poorly stored.

46. (a) Which blood vessel carries blood from the heart to the lungs?

(b) State the function of bicuspid valves in the heart.

(c) Mention two materials transported by blood plasma.

(i) _____ (ii) _____

47. (a) Name substances contained in tobacco that leads to;

(i) lung cancer

(ii) addiction

(b) Give two factors that can lead to smoking of tobacco.

(i) _____

(ii) _____

48. (a) How does deforestation lead to soil erosion?

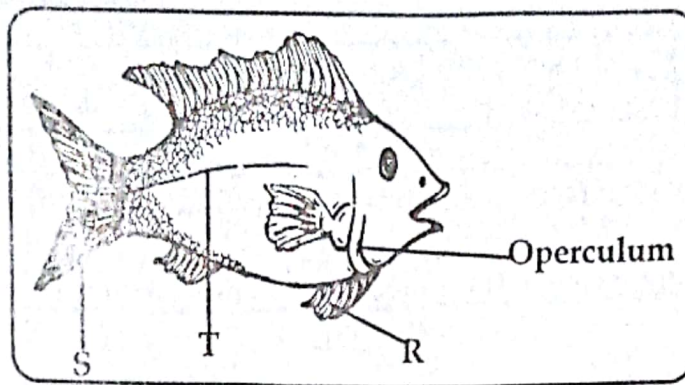
(b) *Apart from deforestation*, give two other causes of soil erosion.

(i) _____

(ii) _____

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

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



(a) Name parts marked R and S from the diagram above.

(i) R _____ (ii) S _____

(b) How is part T useful to a fish?

(c) Which part of the fish is protected by the operculum?

50. (a) Why is aluminum commonly used in making utensils?

(b) Which process enables farmers to dry their harvested crops using heat from the sun?

(c) State the importance of the following parts of a living house.

(i) ventilators

(ii) windows

51. (a) Apart from the heart, mention two other parts of the circulatory system.

(i) _____ (ii) _____

(b) What name is given to special muscles that make up the heart?

(c) Why does blood go to kidneys before circulation?

52. (a) Give the meaning of *personal hygiene*.

(b) How does tooth paste keep the teeth healthy?

(c) *Apart from tooth paste*, mention two items used to clean our teeth.

(i) _____ (ii) _____

53. Match the following terms to their meanings as used in sound energy.

Terms	Meaning
(i) pitch	Is the number of vibrations per second.
(ii) frequency	Is the highness or lowness of sound.
(iii) echo	Is the loudness or softness of sound.
(iv) volume	Is the reflected sound that we hear.
(i) pitch	_____
(ii) frequency	_____
(iii) echo	_____
(iv) volume	_____

54. (a) Name the class of food used to;

(i) build the body

(ii) give energy to the body

(b) Write down any two of the 5Hs.

(i) _____ (ii) _____

55. (a) Why are earthworms referred to as hermaphrodites?

(b) Give a reason why earthworms come out of the soil after raining.

(c) State two importance of earthworms to the soil.

(i) _____

(ii) _____