



# THE PRIME EXAMINATIONS 2024

## P.7 MID MARCH INTEGRATED SCIENCE

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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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### FOR EXAMINERS' USE ONLY

QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 45		
46 - 48		
49 - 50		
51 - 52		
53 - 55		
TOTAL		

APPROVED:

Consultant  
Integrated Science Department (PEC)

PUBLISHERS OF:-

THE PRIME SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES  
LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

### Section A (40 Marks)

1. Name the vector that protects itself from enemies by producing a bad smell when touched.

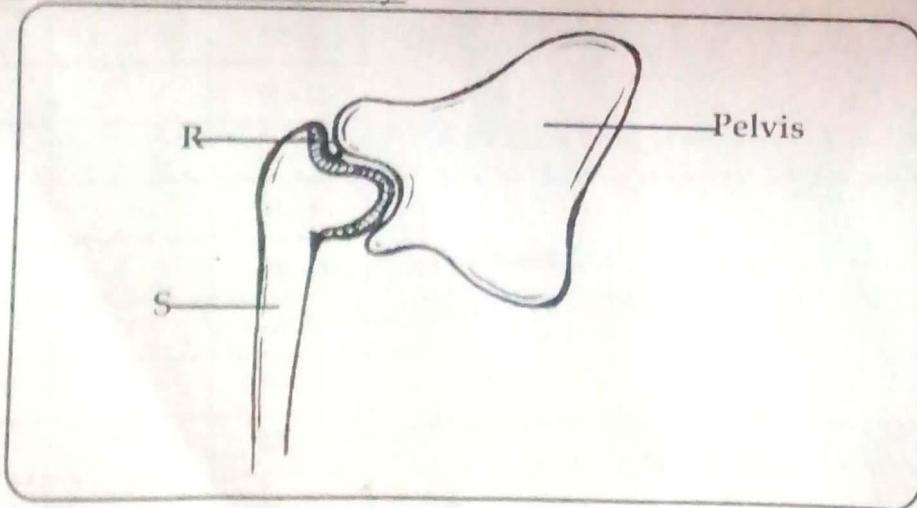
2. Which form of energy melts animal fat to form oil?

3. State the importance of moulting to animals with exoskeleton.

4. How is the auditory nerve useful in the process of hearing?

5. Name the group of mammals which live in water.

The diagram below is of a part of a skeleton. Study and use it to answer questions 6 and 7 correctly.



6. Identify the bone marked with letter S from the diagram above.

7. To which type of movable joints does R belong?

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8. How do bacteria help to control environmental pollution?

9. State one reason why farmers prefer rearing local breeds of goats than exotic breeds.

10. What causes partial deafness in human beings?

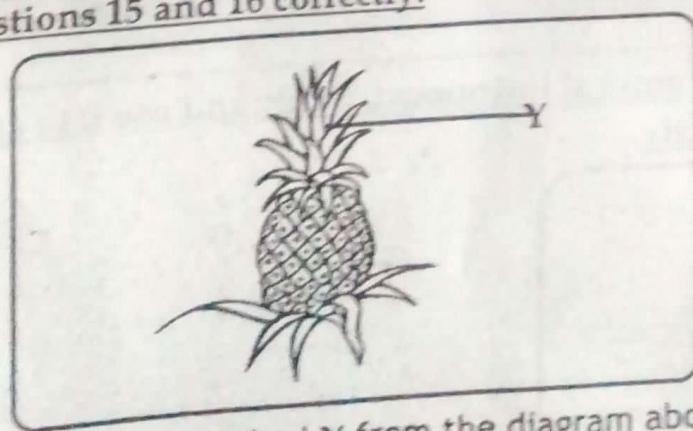
11. How useful are root hairs to plants?

12. Name the class of food that provides heat in the body.

13. Give the best example of static electricity in nature.

14. Give any one importance of rusting to the environment.

The diagram below shows a pineapple fruit. Study and use it to answer questions 15 and 16 correctly.



15. Name the part marked Y from the diagram above.

16. How is part marked Y useful to a crop farmer?

17. Give a reason why there are no valves in arteries.

18. How does washing of clothes prevent a bad smell?

19. Apart killing germs, give one other function of hydrochloric acid found in the stomach.

20. Give one characteristic of laboratory manufactured drugs.

21. State the best way of preventing syphilis in married couples.

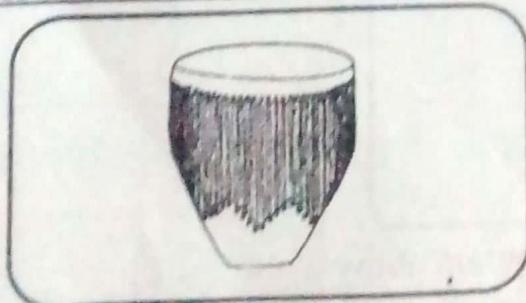
22. Mention one example of pests that can be controlled through fencing the garden.

23. Give one benefit of brushing teeth regularly.

24. State a difference between a *ball and socket joint* and a *hinge joint*.

25. Name one product got from poultry.

The diagram below is of a musical instrument. Study and use it to answer questions 26 and 27 correctly.



26. To which group of musical instruments do we group the above?

27. How does the above musical instrument produce sound?

28. What happens if gaps were not left between rails during construction?

29. Name any one solute used when making ORS.

30. State the use of a bulb on a clinical thermometer.

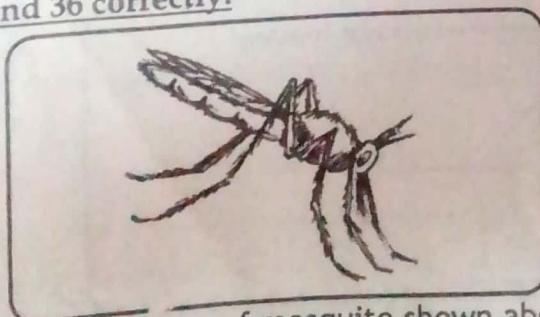
31. How is a tail switch useful to cows?

32. Which type of electricity is generated by fast flowing water?

33. What is the first aid for near drowning?

34. How is *mass* different from *weight* in terms of basic units?

The diagram below is of a mosquito. Study and use it to answer questions 35 and 36 correctly.



35. Name the type of mosquito shown above.

36. Which disease is spread to human beings by the type of mosquito shown above?

37. How do fungi feed?

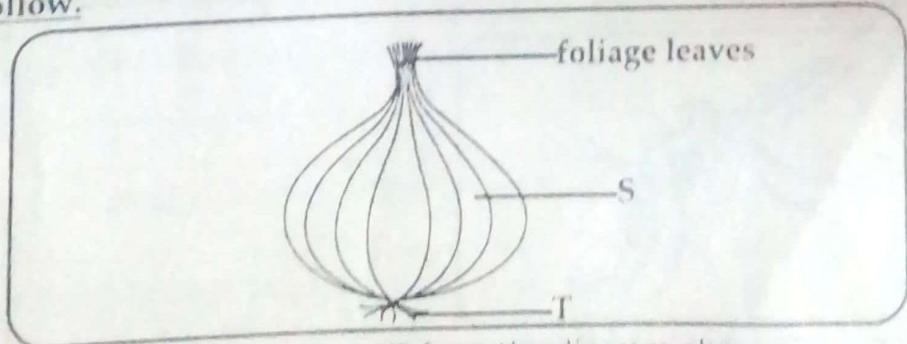
38. Name the structure where chicks below 8 weeks are kept.
39. How are birds adapted to their mode of flight?
40. Name the component of air with the highest percentage in the atmosphere.

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**Section B (60 marks)**

41. (a) State the use of the following instruments to cattle farmers;
- (i) lactometer.
- (ii) strip cup.
- (b) Give the reason for carrying out the following activities when going to milk a cow;
- (i) Washing the udder with warm water.
- (ii) Smearing the teats with Vaseline.

42. The diagram below shows an onion. Study and use it to answer questions that follow.



- (a) Name the part marked S and T from the diagram above.
- (i) S \_\_\_\_\_ (ii) T \_\_\_\_\_
- (b) State the use of foliage leaves to the onion above.

- (c) Apart from an onion, mention one other example of a bulb.

43. (a) What are *renewable resources*?

(b) Why is the sun referred to as a renewable resource?

(c) How is the sun useful to the following;

(i) rain cycle

(ii) plants

44. (a) Give a reason why distilled water is not good for drinking.

(b) Name any one physical process involved in distillation.

(c) Give two uses of distilled water to man.

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

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

45. (a) Which natural immunity does one develop after falling sick?

(b) Name the best way of acquiring artificial immunity.

(c) Give two importance of immunity to the body.

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

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

46. (a) Apart from methyl alcohol, name one other type of alcohol.

(b) Give any two factors that can lead to alcoholism.

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

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

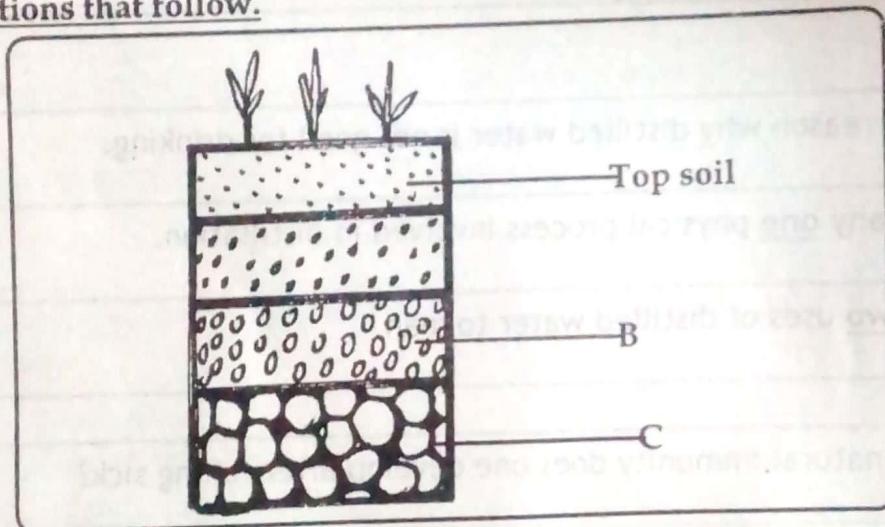
(c) Name the fungi that helps in the process of fermentation.

47. (a) Give any two services provided to pregnant mothers during antenatal care.

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

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

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- (b) Why are pregnant mothers given TT vaccine?
- (c) State the reason why pregnant mothers are advised to eat food rich in proteins.
48. The diagram below shows a soil profile. Study and use it to answer the questions that follow.



- (a) Name the layers marked B and C from the diagram above.
- (i) B \_\_\_\_\_ (ii) C \_\_\_\_\_
- (b) Why is the top soil the best for plant growth?  
\_\_\_\_\_
- (c) Name one place in the environment where we can clearly see the soil profile.  
\_\_\_\_\_
49. (a) State the difference between *burns* and *scalds*.  
\_\_\_\_\_
- (b) Give the first aid for burns and scalds.  
\_\_\_\_\_
- (c) Which degree of burns form blisters on the skin?  
\_\_\_\_\_
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(d) Why is it not advisable to break a blister in case you have got a burn?

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50. Emmanuel's daughter poured salt in sand. Write down the steps he would follow to recover the salt from sand.

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

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

(iii) \_\_\_\_\_

(iv) \_\_\_\_\_

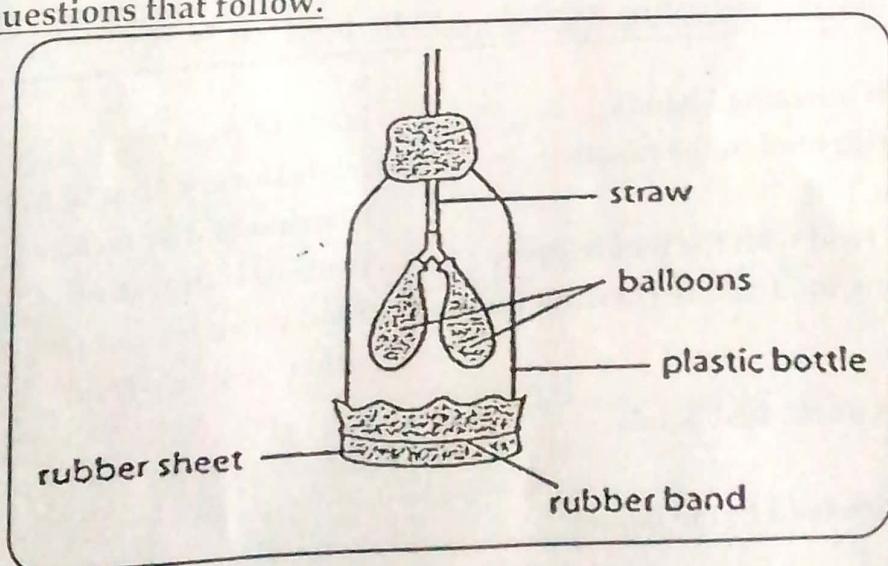
51. (a) Mention any two of the 5 human senses.

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

(b) Name any two materials at home used for cleaning the compound.

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

52. The diagram below shows a body system. Study and use it to answer questions that follow.



(a) Identify the body system shown above.

(b) Name the part of the system named above represented by:

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

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

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(c) State what would happen to the rubber sheet if the ~~tubes~~ ~~tubes~~ are filled with air.

53. (a) Give two principles of PHC.

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

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

(b) State any two ways of educating people under health education in the community.

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

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

54. (a) What do we call the twins produced as a result of the following:

(i) When two eggs are released and fertilized?

(ii) When one egg is fertilized and the zygote split into two parts?

(b) Name the two types of chromosomes in human beings.

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

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

55. Match the following bad eating habits in A to their effects in B.

A

(i) Eating with unwashed hands

B

leads to choking.

(ii) Talking with food in the mouth

leads to easy spread of diarrhoeal diseases.

(iii) Chewing food with the mouth open

leads to indigestion.

(iv) Swallowing food before chewing properly

food particles can fly to other people's food.

(i) Eating with unwashed hands \_\_\_\_\_

(ii) Talking with food in the mouth \_\_\_\_\_

(iii) Chewing food with the mouth open \_\_\_\_\_

(iv) Swallowing food before chewing properly \_\_\_\_\_