



**MPALE CITY PRIMARY SCHOOLS' HEAD TEACHERS'  
ASSOCIATION ACADEMIC BOARD  
PRIMARY LEAVING MOCK EXAMINATION  
2023  
INTEGRATED SCIENCE**

Time Allowed: 2 Hours 15 Minutes

	Random No.	Personal No.
Index No.	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>

Candidate's Name: .....

Candidate's Signature: .....

School Random No: .....

District ID: .....

**READ THE FOLLOWING INSTRUCTIONS  
CAREFULLY:**

1. This paper has two sections: A and B.
2. Section A has 40 questions (40 Marks).
3. Section B has 15 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B. must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration/crossing* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:  
"FOR EXAMINER'S USE ONLY"

**For Examiner's Use Only;**

PAGES	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

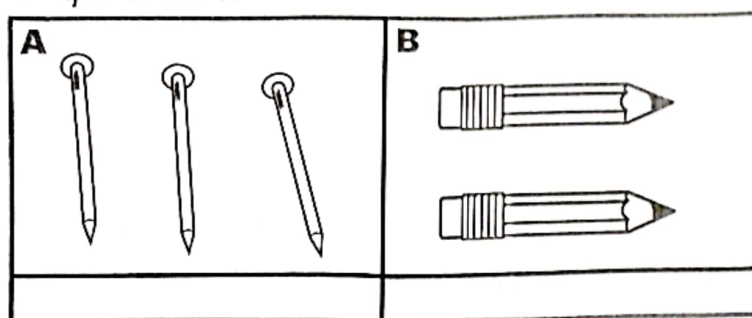
**Please turn over**

## SECTION A: 40 MARKS

Questions 1 to 40 carry **one** mark each.

1. Which element of weather causes flooding in an area?  
\_\_\_\_\_
2. Name the part of the human ear with a similar function as the optic nerve of the eye.  
\_\_\_\_\_
3. Apart from wings, name **one** other part of an insect attached to the thorax.  
\_\_\_\_\_
4. What role is played by mucus in the nose?  
\_\_\_\_\_  
\_\_\_\_\_
5. State **one** property of air that enables lungs to expand during inhalation.  
\_\_\_\_\_  
\_\_\_\_\_
6. Why is it important to include cotton wool in a First Aid Box?  
\_\_\_\_\_  
\_\_\_\_\_
7. Mention the part of an egg which provides proteins and fats to the growing chick during incubation.  
\_\_\_\_\_
8. Give **one** way food in the human body is similar to fuel in a car.  
\_\_\_\_\_  
\_\_\_\_\_

The diagram below shows examples of materials. Study and use it to answer question 9.



9. How are objects shown in **A** different from objects in **B** in the study of magnetism?

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10. State **one** advantage of artificial insemination on a cattle farm.

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11. Mention **one** advantage of feathers to scavenger birds.

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12. Give **one** effect of untreated gonorrhoea to a pregnant woman.

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13. State **one** benefit of alcohol to a medical worker.

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14. Why is the first dose of Hep B vaccine administered at the age of six months?

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15. Name the type of bees with no duty in the beehive.

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16. How does salting prevent food from rotting?

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17. In which **one** way is the spread of leprosy similar to that of cholera?

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18. Give **one** reason for prescribing medical drugs before using them.

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19. Why are poultry in the free-range system at a higher risk of getting poultry diseases?

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20. State the crop management practice done by supporting a fruiting banana plant with a pole.

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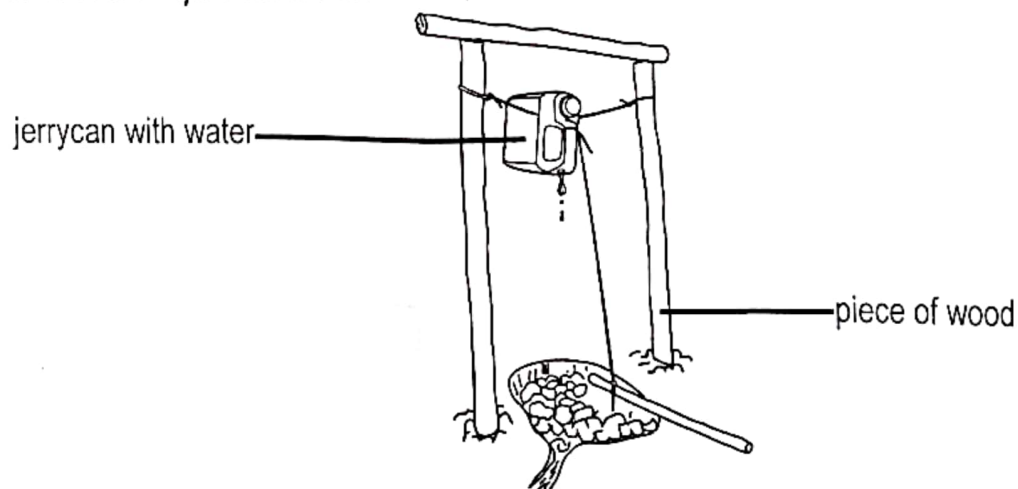
21. Why is the filament of an electric bulb made of a thin coiled wire?

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22. Mention the first type of teeth to develop in the mouth.

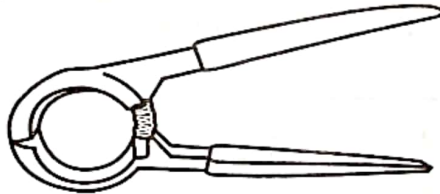
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**The diagram below shows a common equipment. Study and use it to answer question 23.**



23. Why is the equipment above recommended for use instead of hand operated taps?
- 
24. What important process takes place in the medulla of the kidney?
- 
25. In which way does docking ease mating in ewes?
- 
26. Name the method of making water safe which does not involve heating.
- 
27. Which characteristic prevents insects from visiting wind pollinated flowers?
- 
28. Give **one** primary sex characteristic that is common to both boys and girls during adolescence.
- 

**The diagram below is of a simple machine. Study and use it to answer question 29.**



29. To which class of levers does the above machine belong?
- 
30. How does breastfeeding improve the immunity of a baby? ☐
- 
31. Give any **one** way the size of an object determines pitch of a percussion musical instrument.
- 
32. Mention the component of **ORS** which provides energy to a dehydrated person.
-



33. How does feeding on calcified meals helpful to the skeletal-muscular system?

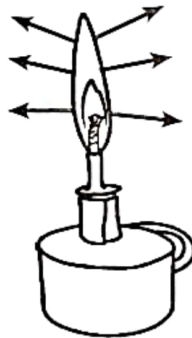
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34. Give **one** characteristic that makes rusting of a metal to be a chemical change.

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The diagram below shows a property of light. Study and use it to answer question 35.



35. How is light propagated from the source above?

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36. What structures on a leaf of a plant play a similar role as the lungs in a human being?

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37. Apart from moisture and oxygen, give **one** other condition needed for a seed to germinate.

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38. To which group of vertebrates is a chameleon classified?

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39. Why does a person suffering from malaria become anaemic?

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40. Apart from the earth, name the other example of a natural magnet.

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## SECTION B: 60 MARKS

Questions 41 to 55 carry **four** marks each.

41(a) Name the type of soil with;

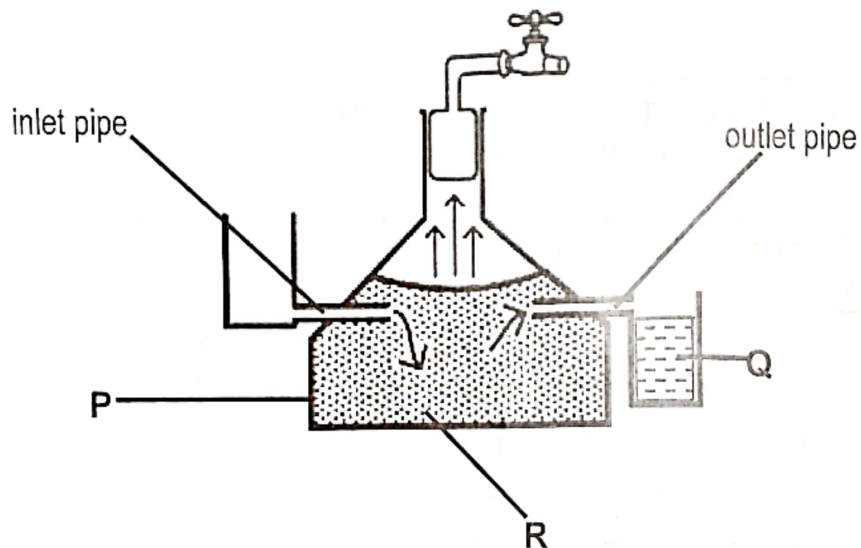
(i) a high humus content \_\_\_\_\_

(ii) a high rock particle content \_\_\_\_\_

(b) Which method of soil formation involves the action of bacteria?

(c) State the method of conserving soil moisture which involves the use of dry plant materials.

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



(a) Name the fuel produced in the equipment above.

(b) Give **one** example of a material that should be put at **R**.

(c) Why is equipment marked with letter **P** kept air tight?

(d) How is substance **Q** useful to crop farmers?

43. The table below shows common diseases that attacked chicken in four villages from June to October 2022. Study and use it to answer the questions that follow.

Village	June	July	August	September	October
A	-	-	Coccidiosis	-	Avian Leukosis
B	Fowl typhoid	-	Black head	Coccidiosis	Coccidiosis
C	-	-	Coccidiosis	-	-
D	Coccidiosis	-	Coccidiosis	Fowl pox	-

- (a) Name the disease that attacked all the four villages.  
\_\_\_\_\_
- (b) Give **one** sign of the disease that attacked village **D** in September.  
\_\_\_\_\_
- (c) In which month did the poultry farmers in the four villages spend more on treatment?  
\_\_\_\_\_
- (d) State any **one** step that can be taken by poultry farmers to control diseases on their farms.  
\_\_\_\_\_
- 44(a) Mention **two** artificial methods of vegetative propagation.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) Write **two** advantages of using artificial methods of vegetative propagation.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- 45(a) Name the poisonous gas contained in tobacco smoke.  
\_\_\_\_\_
- (b) Give **two** communicable diseases worsened by excessive smoking of tobacco.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) Which body organ is greatly damaged by excessive smoking?  
\_\_\_\_\_



46(a) Give **one** way the following human activities affect the environment:

(i) swamp drainage \_\_\_\_\_

(ii) charcoal burning \_\_\_\_\_

(b) Mention any **two** natural causes of changes in the environment.

(i) \_\_\_\_\_ ☐

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

47. (a) Mention any **two** products obtained from petroleum.

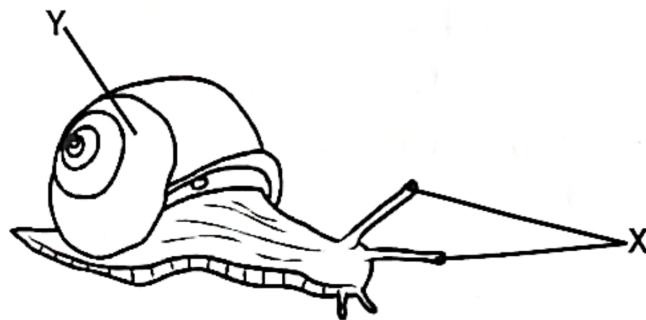
(i) \_\_\_\_\_

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

(b) Which method is used to separate petroleum into its products?

(c) Give the reason why the method mentioned in (b) above is used to separate petroleum.

48. The diagram below shows a common animal. Use it to answer the questions that follow.



(a) To which group of invertebrates does the animal drawn above belong?

(b) Name the parts labelled with letters;

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

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

(c) Mention any **one** danger of the above organism to human health.

49(a) Mention any **two** foreign bodies that can fall into the eyes.

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

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

(b) What First Aid is given to a person with a foreign body in the eye?

\_\_\_\_\_

(c) Why is it not advisable to remove foreign bodies from the ear using a needle?

\_\_\_\_\_ ☐

50(a) Write **two** practices which encourage the spread of COVID-19 in the community.

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

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

(b) Give **two** behavioural practices that can prevent a primary seven candidate from contracting COVID-19.

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

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

51(a) To which body system does the stomach belong?

\_\_\_\_\_

(b) Mention the waste product excreted by the following:

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

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

(c) Why are faeces not grouped under body waste products?

\_\_\_\_\_

52. (a) How is reproduction in yeast different from that in most fungi?

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(b) State any **two** ways fungi are useful to people.

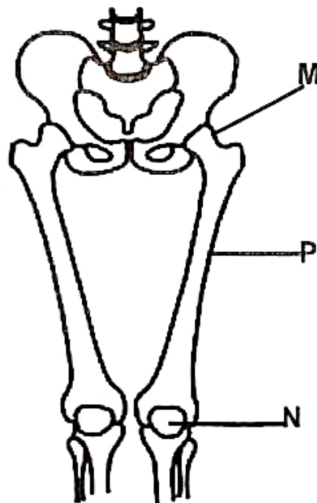
(i) \_\_\_\_\_

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

(c) Which structure in fungi plays a similar role as roots in plants?

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53. The diagram below shows part of the human skeleton. Study and use it to answer the questions that follow.



(a) Name the bone marked with letter **P**.

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(b) Which joint is marked with letter **M** above?

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(c) How is movement of joint at point **M** different from that at point **N**?

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(d) Give **one** disorder common to the section of the skeleton shown above.

54. (a) What name is given to the habitat of a domestic rabbit?

\_\_\_\_\_

(b) Why do some farmers prefer keeping rabbits to cattle?

\_\_\_\_\_

\_\_\_\_\_

(c) How does rabbit keeping benefit vegetable crop farmers?

\_\_\_\_\_

(d) Name any **one** product got from rabbit farming.

\_\_\_\_\_

55. (a) Which process in plants uses carbon dioxide?

\_\_\_\_\_

(b) Name **one** condition needed by the process mentioned in 55 (a) above.

\_\_\_\_\_

(c) How does the process mentioned above benefit;

(i) animals and people?

\_\_\_\_\_

(ii) the environment?

\_\_\_\_\_

