



THE E-LEARN EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATIONS

2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	EMIS No.					Personal No.		

Pupil's Name:

Pupil's Signature:

School Name:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions. The paper has **12** printed pages altogether.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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 will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A: 40 MARKS

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

1. Name the teeth used for tearing meat.

.....

2. Why do wading birds have long legs?

.....

3. Name the strongest bone in the human body.

.....

4. How is a chameleon important in our environment?

.....

5. Name **one** example of an exotic breed of rabbits.

.....

The diagram below is of a component of blood. Use it to answer questions **6** and **7**.



6. Identify the component of blood above.

.....

7. How is the above component useful in the body?

.....

8. Give the meaning of the term sprain.

.....

9. How does heat travel through gases?

.....

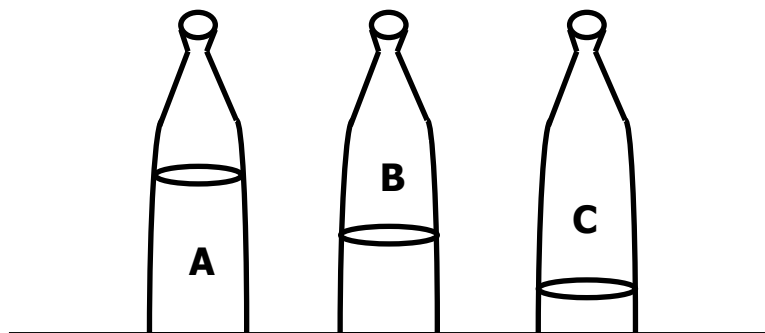
10. Why does smoke always move upwards through a chimney?



.....

11. Name **one** form of energy which can cause change of state of matter.
.....
12. Besides wool, State any other animal fibre.
.....
13. Briefly give the meaning of seed dispersal.
.....
.....
14. How are scratching birds important in our gardens?
.....

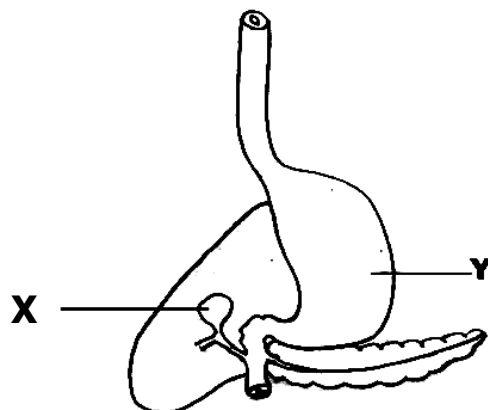
The diagram shows three bottles **A**, **B** and **C** of the same size and material with different amount of water. Use it to answer the question **15**.




15. Which bottle will produce the highest pitch of sound when air is blown into them?
.....
16. How can you tell that a child was immunized against tuberculosis without reading the immunization card?
.....
17. Why are ventilators useful on a house?
.....
18. What causes scabies?
.....

19. Give **one** example of a voluntary muscle in the human body.
.....
20. What is the use of saliva in the digestive system?
.....
21. What name is given to the three bones found in the middle ear?
.....
22. How is the function of stomata similar to that of gills in a fish?
.....
23. How useful is chlorophyll in plants?
.....
24. What is a magnet?
.....
.....
25. Name the element of PHC promoted by carrying out Vasectomy.
.....
26. Why do people plant grass in the compound?
.....
27. How can a farmer control weaverbirds from his maize garden?
.....

The diagram below is of a part of digestive system. Use it to answer question **28** and **29**.



28. Name the part marked **X**.
.....
29. Name any **one** digestive juice produced in the part marked **Y**.
.....
30. What is puberty?
.....
.....
31. How can one know that he/she has HIV? 
.....
.....
32. Give **one** way of avoiding accidents in the kitchen.
.....
33. Which organ does a housefly use for smelling?
.....
34. Give **one** example of a reptile.
.....
35. How does a vacuum flask keep hot liquids hot and cold liquids cold?
.....
.....
36. Name **one** raw material used by plants to make starch.
.....
37. Give any **one** example of antisocial behaviour in our communities.
.....
38. What is the best method of harvesting wood meant for timber?
.....

39. State the importance of the vaginal fluid produced during sexual intercourse.

.....

40. What are secondary consumers in food chain?

.....

.....

SECTION B: 60 MARKS



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

41. (a) How can a person acquire artificial immunity?

.....

- (b) Write BCG in full.

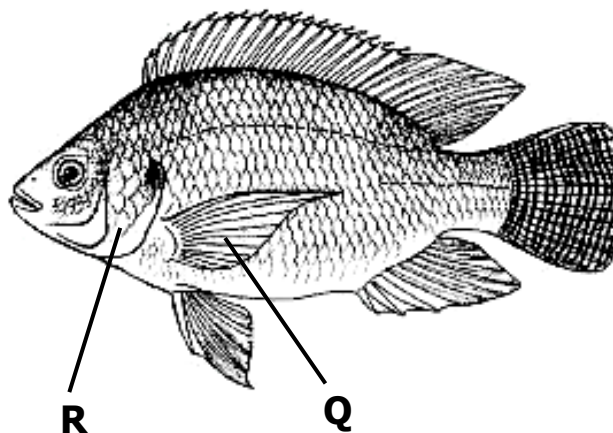
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- (c) Mention any **two** types of vaccines.

(i)

(ii)

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



- (a) Name the part marked **Q**.

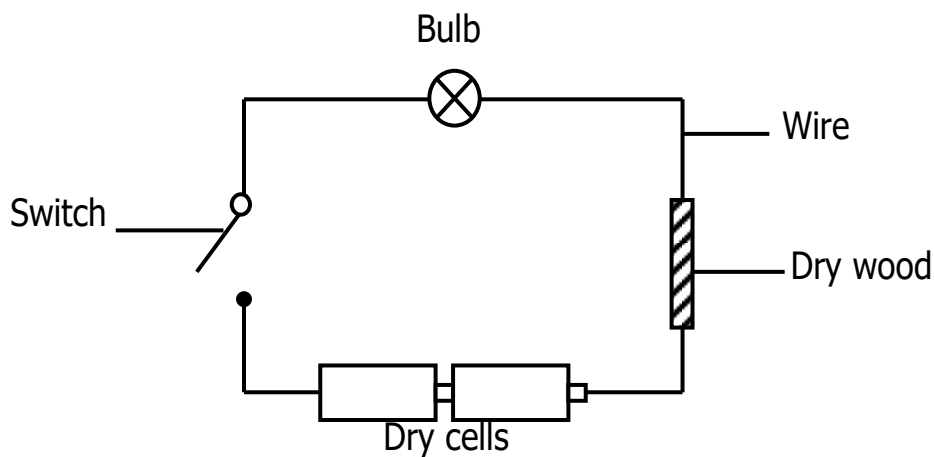
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- (b) What is the function of the part marked **R**?

- (c) Why does a fish die immediately when removed from water?

- (d) By use of letter **M**, mark the part that enables forward movement.

43. The diagram, below shows a simple electric circuit. Use it to answer the questions that follow.



- (a) Explain what will happen to the bulb when the switch is closed.

- (b) Give a reason to support your answer above.

- (c) How much electric pressure will be produced by the dry cells?

- (d) What energy change takes place in the bulb when a circuit is complete?

.....

44. (a) What is an echo?



.....

.....

(b) How is echo useful to bats?

.....
.....

(c) How is echo prevented in cinema halls?

.....
.....

(d) Name **one** device on which sound can be stored.

.....

45. (a) Give **one** advantage of keeping rabbits.

.....

(b) What is the gestation period of rabbits?

.....

(c) State **two** qualities of a good hutch.

(i)

(ii)

46. Write briefly about the following terms as used in electricity:

(a) electric circuit

.....
.....

(b) Switch

.....
.....

(c) conductors

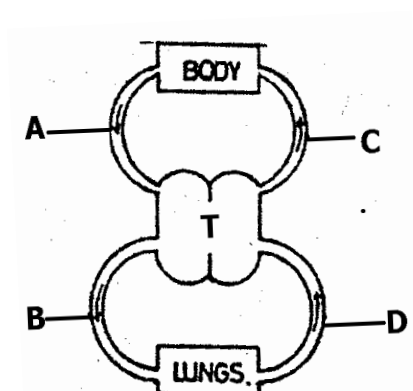
.....
.....

(d) insulators

.....
.....

Turn Over

47. (a) State any **two** reasons why you should not leave your home bushy.
- (i)
- (ii)
- (b) Besides slashing, suggest any other **two** ways you would promote cleanliness at home.
- (i)
- (ii)
48. (a) What is soil exhaustion?
-
-
- (b) Write down any **two** causes of soil exhaustion.
- (i)
- (ii)
- (c) State any **one** way of controlling soil exhaustion.
-
49. The diagram below is of a blood circulatory system in human beings. Use it to answer the questions that follow.



- (a) What body organ does part **T** represent?

.....

- (b) What is the difference in blood carried by blood vessels marked **B** and **C**?

.....
.....

- (c) Name the substance which is lacking in the blood carried by the blood vessel marked **A**.

.....

- (d) Name the blood vessel marked with letter **C**.

.....

50. (a) What is the function of the claws on an eagle?

.....

- (b) State **two** ways an eagle is adapted to its mode of feeding.

(i)

.....

(ii)

.....

- (c) State **one** similarity between birds and reptiles.

.....

51. The table below shows breeds of animals in part **A** and their purposes in part **B**.

Part A: Breeds of cattle	Part B: Purposes
(a) Friesian	production of pork.
(b) Hereford	production of beef.
(c) Zebu	production of milk.
(d) Hampshire	production of milk and beef.

Choose from part B the suitable purpose for every breed and fill in the gaps.

- (a) Friesian
- (b) Hereford
- (c) Zebu
- (d) Hampshire.....

52. (a) What is poultry?

.....

(b) Why do farmers keep poultry birds at home?

.....

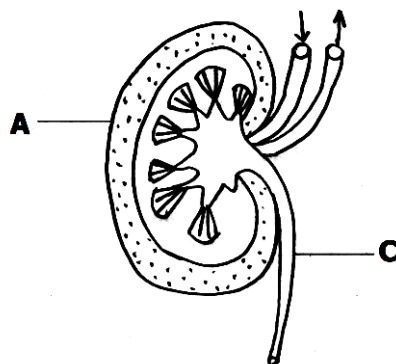
(c) Mention **one** suitable systems of rearing chicken by most farmers in the village.

(i)

(d) How is the above mentioned system useful to farmers?

(ii)

53. The diagram below shows a human kidney. Use it to answer the questions that follow.



(a) Name the part labeled with letter **A**.

.....

(b) What substance goes through the part labeled **C**?

.....

(c) State any **two** functions of the kidney that are similar to those of the skin.

(i)

(ii)

54. (a) Apart from hearing, state the other function of the human ear.
.....

(b) Why is it advisable to remove wax from the ears?
.....

(c) Which part of the ear collects sound waves from the environment?
.....

(d) Mention **one** example of ear defect.
.....

55. (a) State **two** characteristics of a poisonous snake.
(i)

(ii)

(b) Mention **one** example of a poisonous snake.
.....

(c) How do most snakes reproduce?
.....



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