NEXT EXAMINATIONS BOARD

# PRE-PLE SET 2 (LION)

| Final Mark Scored | |
|---|---|

INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

| Random NO. | | | | | | Personal No. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**Candidate's Name:** .....

**Candidate's Signature:** .....

**School Name:** .....

**Read the following instruction carefully:**

1. Do not forget to write your **name** and **school 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 **13 printed pages** altogether.
3. Answer **all** the 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 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 simple leaf found in a blackjack plant.

   .....

2. Give any **one** way in which honey is important to people.

   .....

   .....

3. Give any **one** method used to prepare a simple dish at home.

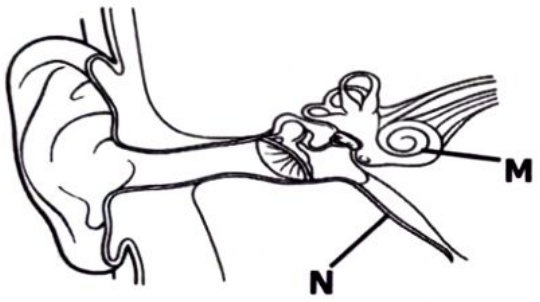
   .....

4. State the difference between freezing and melting.

   .....

   .....

The diagram below shows the structure of a human ear. Use it to answer questions **5** and **6.**




5. Name the part labelled **M**.

   .....

6. State the function of part labelled **N** to the human ear.

   .....

7. Name the type of teeth found at the corner of the mouth.

   .....

8. State any **one** way of keeping the digestive system in its normal working condition.

.....

.....

9. State **one** way in which bones are important during blood circulation.

.....

.....

10. Give any **one** role of a School Health Club in the promotion of personal hygiene among school children.

.....

.....

11. State **one** reason why a boat floats on water.

.....

.....

12. State any **one** effect of smoking to the family.

.....

.....

13. Give any **one** way in which Primary Health Care (PHC) is an important programme to the community.

.....

.....

14. State any **one** activity done to seedlings during hardening off.

.....

.....

15. Give any **one** way of conserving charcoal at home.

.....

.....

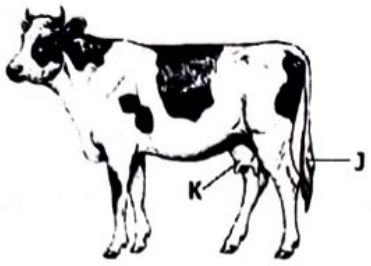
16. Name the germ that causes malaria to people.

.....

17. Name the type of weather that requires the use of gumboots.

.....

The diagram below shows external features of a cow. Study it and answer questions **18** and **19**.




18. Name the part marked **K**.

.....

19. State the importance of the part marked **J** to a cow.

.....

.....

20. State any **one** way of controlling near drowning at home.

.....

.....

21. Name any **one** connective tissue found at the joint.

.....

22. Give any **one** condition that can lead to short circuit.

.....

.....

23. State any **one** way of controlling hookworm infestation in humans.

.....

.....

24. Mention any **one** method used when washing clothes.

.....

.....

32. State any **one** way in which smoking reduces bad smell in the latrine.

.....

.....

33. Mention any **one** way in which the skin regulates body temperature on a cold day.

.....

.....

34. Give any **one** characteristic of forms of energy.

.....

35. Give **one** way in which bacteria are harmful to a crop farmer.

.....

.....

36. Mention any **one** method of heat transfer in matter.

.....

37. Give any **one** condition necessary for plants to make food.

.....

38. Name any **one** type of lice that affect human beings.

.....

39. State any **one** reason why drugs should be kept away from children's reach.

.....

.....

40. Name the part of the sheep removed during docking.

.....

25. Give any **one** reason why it is advisable to brush teeth using toothpaste.

.....

.....

The diagram below shows a bird. Use it to answer the questions **26** and **27.**



26. Identify the group of birds to which the bird above belongs.

.....

27. State any **one** characteristic of the group of birds to which the bird above belongs.

.....

28. State any **one** way in which dysentery spreads to people.

.....

29. State any **one** way in which school children can care for their brain.

.....

.....

30. Give any **one** way in which the physical exercises are important to the human body.

.....

.....

31. Give **one** way in which a pine plant is similar to a moss plant.

.....

.....

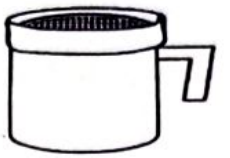
## SECTION B: 60 MARKS

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

41. The diagrams below show equipment used in cattle management. Study and use them to answer the questions that follow.



x



Y

(a) Identify the type of cattle that requires the equipment **Y**.

.....

(b) Give the function of the equipment marked **X** and **Y**.

(i) **X** .....

(ii) **Y**.....

(c) State any **one** good practice of using the equipment above.

.....

42. (a) Name the type of life cycle that the following insects undergo;

(i) grasshopper.....

(ii) butterfly .....

(b) Give any **two** ways of identifying insects.

(i) .....

(ii) .....

43. (a) Give the meaning of the following terms;

(i) Balanced diet:

.....

(ii) Malnutrition:

.....

(b) State any **two** reasons why people eat food.

(i) .....

(ii) .....

44. (a) Write down any **two** compositions of blood.

(i) .....

(ii) .....

(b) State any **two** ways of increasing the volume of blood in the human body.

(i) .....

(ii) .....

45. (a) Name the solar equipment that absorbs sunlight.

.....

(b) Explain how the use of solar energy for cooking helps to conserve the environment. (02 Marks)

.....

.....

(c) Give any **one** device at home that uses solar energy.

.....

46. The table below shows terms used in keeping bees in part **A** and their meaning in part **B**.

| **A: Terms** | **Part B: Meaning** |
|---|---|
| Stocking the hive | -Selecting suitable place for keeping bees. |
| Swarming | -Act of attracting bees in the hive using baits. |
| Hiving | -Movement of bees from one place to another. |
| Siting the hive | -Encouraging bees to occupy an empty hive. |

Match correctly the bee keeping practices with their meaning in the spaces provided below.

(i) Stocking the hive.....

(ii) Swarming.....

(iii) Hiving .....

(iv) Siting the hive.....

47. **The diagram below shows a type of fertilisers. Study and use it to answer the questions that follow.**




(a) Identify the type of fertilisers shown in the diagram above.

.....

(b) Give any **one** advantage of using the type of fertilizers shown in the diagram above.

.....

.....

(c) State any **two** reasons why crop farmers are discouraged from over using the type of fertilisers shown in the diagram above.

(i) .....

.....

(ii).....

.....

48. (a) State any **two** ways in which people abuse drugs in the society.

(i) .....

(ii).....

(b) Give any **two** life skills that children can develop to safeguard themselves against drug abuse.

(i) .....

(ii) .....

49. (a) Name the agent of seed dispersal for;

(i) Jacaranda seeds :.....

(ii) Lotus seeds : .....

(b) State any **two** characteristics of seeds dispersed by animals.

(i) .....

(ii) .....

50. (a) Write down **two** forms of feeding babies on milk.

(i) .....

(ii) .....

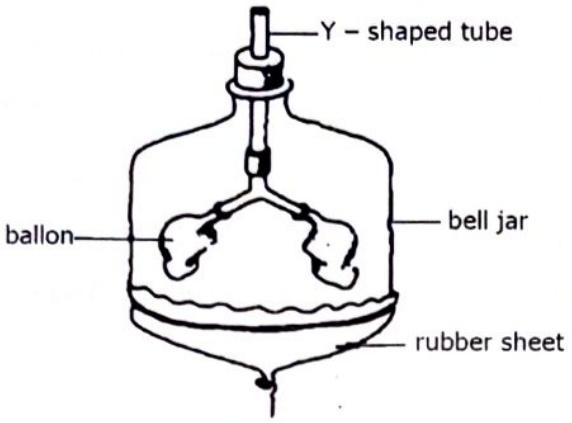
(b) Mention any **one** problem that faced by the elderly people.

.....

(c) Give any **one** way of caring for the babies as vulnerable people.

.....

51. The diagram below shows an experiment done to demonstrate a certain human body system.




(a) Identify the human body system demonstrated by the diagram above.

.....

(b) State what the following parts represent in the human body;

(i) Y-shaped tube :

.....

(ii) Balloons :

.....

(c) State what happens to the balloons when the rubber sheet is pulled downwards.

.....

52. Jane was not feeling well. She decided to go for medical check where the doctor measured her body temperature and discovered that her body temperature had increased by $3^0C$.

(a) State Jane's body temperature after measurement.

.....

(b) Change the Jane's temperature after measurement to Fahrenheit scale. (03 Marks)

53.(a) Give the meaning of the following terms:

(i) Weeding :

.....

.....

(ii) Gap filling :

.....

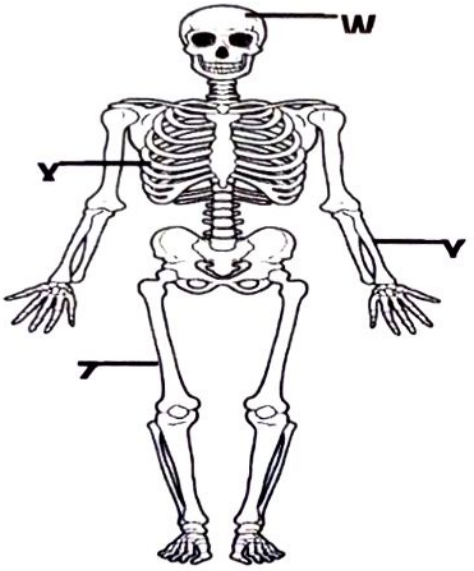
.....

(b) Give any **two** methods of weeding the garden.

(i) .....

(ii) .....

54. The diagram below is of a human skeleton. Study and use it to answer the questions that follow.




(a) Name the parts marked **Y** and **Z**.

(i) **Y** : .....

(ii) **Z** : .....

(b) State the protective function of the part marked **X** on the skeleton.

.....

(c) Which human body organ is found in the part marked **W** of the skeleton?

.....

55. (a) Name the component of air that legumes use to make plant proteins.

.....

(a) You are provided with the following materials;

**Water, basin and glass**

Describe an experiment to show that air occupies space.

(03 Marks)

.....

.....

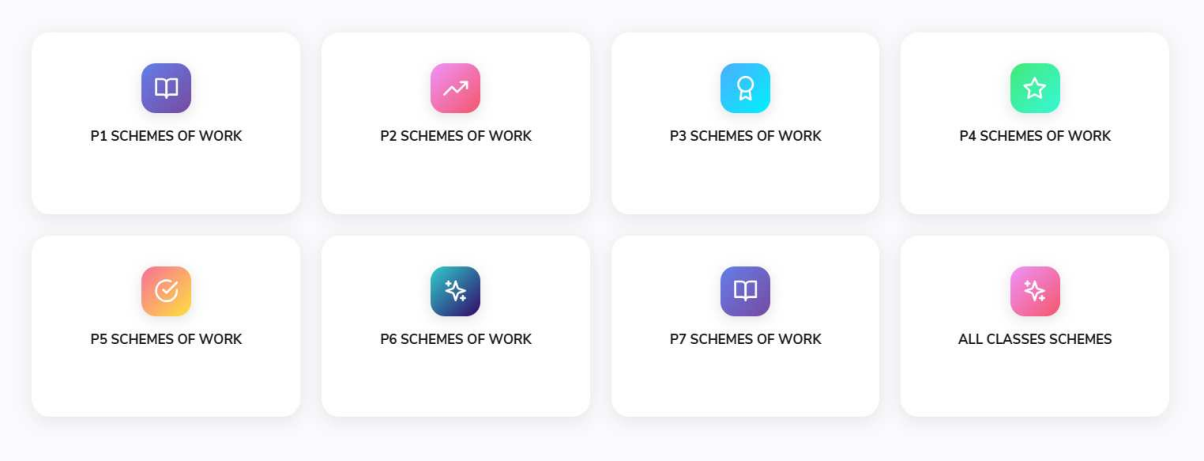
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**END**

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