NEXT EXAMINATIONS BOARD

PRE-PLE SET 4 (LEOPARD)

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 **15 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: 40marks

1. State any one structural similarity between birds and reptiles.

   .....

   .....

2. Give any one advantage of having physical exercises to the human body.

   .....

   .....

3. State any one importance of decomposition as a chemical change in the environment.

   .....

   .....

4. Explain how the trimming of fingernails helps to reduce on the spread of diarrhoeal diseases among people.

   .....

   .....

5. Give any one danger of birds of prey to poultry farmers.

   .....

   .....

6. Give one way malaria can be prevented in our communities.

   .....

   .....

7. Mention one way painting enables metals to last longer.

   .....

   .....

8. Identify any one situation that may make a woman to be regarded as vulnerable.

.....

.....

9. State the reason why the trachea is made of rings of cartilage.

.....

.....

10. Mention any one importance of cooking food.

.....

.....

The diagram below shows a plant with a weak stem climbing another. Use it to answer questions 11 and 12.



11. Which method of climbing is shown in the diagram above?

.....

12. Give any one way plants benefit from the above practice.

.....

.....

13. Suppose you are a health prefect at your school, mention one message you can pass on during girl's talk to help them keep their reproductive system health.

.....

.....

14. Name the bone in the human body that is covered by the triceps and biceps muscles.

.....

15. Give one danger of poor disposal of human wastes like faeces.

.....

16. Why are bean seeds planted in the dry soil unable to germinate?

.....

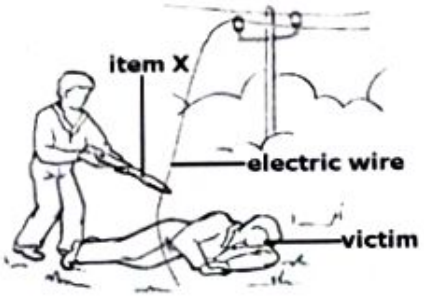
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17. State the difference between air and wind.

.....

.....

The diagram below shows a person disconnecting a victim from electricity using item X. Use it to answer question 18 and 19.



18. State a reason why the person disconnecting the victim from electricity should stand on dry wood / timber.

.....

19. Which characteristic should item X possess for the helper to be safe from electrocution?

.....

.....

20. State any one use of water in a hospital.

.....

.....

21. Give one-way health workers ensure proper drug prescription to prevent overdose or under dose in patients.

.....

.....

22. Why is harvesting of crops commonly carried out in the dry season?

.....

.....

23. State any one way amphibians like frogs and toads help to improve people's health in the community.

.....

.....

24. How does timely weeding help to control crop diseases?

.....

.....

25. Mention any one way you benefit from a diet chart displayed in your classroom.

.....

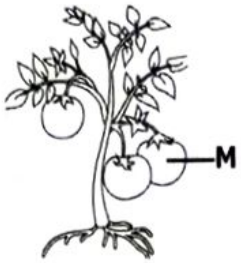
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26. State any one way school children can care for their kidneys.

.....

.....

The diagram below shows a plant. Use it to answer question 27.



27. How does part marked **M** help to prevent plant extinction in the environment?

.....

.....

28. Name the process in kidneys which helps to prevent loss of useful materials from the body.

.....

29. How do cracks in walls promotes the spread of cockroach borne diseases?

.....

.....

30. Give one-way vaccination improves the body's ability to resist disease germs.

.....

.....

31. Give any one reason why some people rear sheep.

.....

SECTION B

41. Ronald a poultry farmer, keeps only Jersey Black Giant and Minorca chickens on his farm.

a) Name one type of chicken which is not found on Ronald's farm.

.....

b) What is the major reason Ronald keeps Minorca chickens?

.....

c) Cite one bacterial disease that attack poultry.

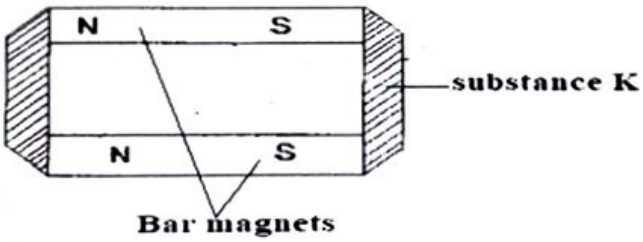
.....

d) Give one-way poultry diseases affect a poultry farmer.

.....

.....

42. The diagram below shows a certain method of protecting magnets from demagnetisation. Study and use it to answer questions that follow.



a) Name substance marked **K**.

.....

b) How does substance marked **K** protect magnets from demagnetisation?

.....

.....

c) State one-way magnets can be destroyed.

.....

d) Give **one** medical application of magnets to people.

.....

43. a) State the element of PHC promoted by removing silt from water wells.

.....

b) Give **one** danger of sharing water wells with animals.

.....

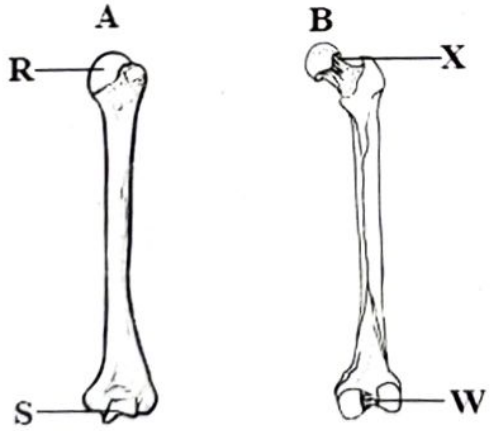
c) Cite **one** measure that can be taken to protect water wells from contamination.

.....

d) Besides water wells, name **one** other place where people can get water in the community.

.....

44. The diagrams below show two bones found in the human body. Study and use them to answer questions that follow.



a) Name bone marked **A** and **B**.

(i) A: .....

(ii) B: .....

b) How joint marked **R** different from that marked **W**?

.....

.....

c) Why are the bones in the diagrams grouped under long bones?

.....

.....

45. Family planning refers to the use of birth control methods to decide when to have or not to have a child in a family.

a) State the birth control method that controls both STDs and pregnancies.

.....

b) How does prolonged breast-feeding help to control pregnancies among women?

.....

.....

c) Which permanent birth control method involves the cutting and sealing the tubes of the oviduct?

.....

d) State one-way women benefit from using family planning.

.....

.....

46. Using well illustrated and labelled diagram, explain and show how an umbra shadow is formed. (**4marks**)

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47. a) Give the meaning of the term drug abuse.

.....

.....

b) Explain one way drug abuse leads to each of the following.

(i) Increase in road accidents

.....

.....

(ii) Increase in the spread of HIV/AIDS

.....

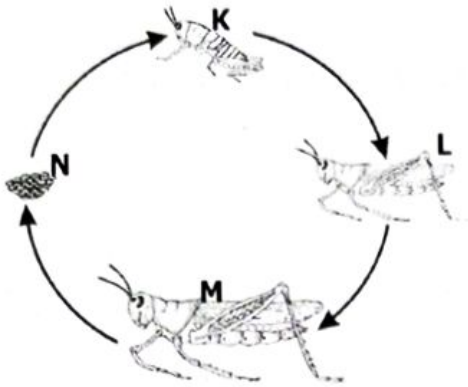
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c) How does self-awareness as a life skill help one to avoid drug abuse?

.....

.....

48. The diagram below shows a lifecycle of a certain insect. Study and use it to answer questions that follow.



a) Which type of lifecycle is shown in the diagram above?

.....

b) Name stage marked **K** and **L**.

(i) K: .....

(ii) L: .....

c) Give **one** reason why stage marked **N** is commonly found under sand / soil.

.....

.....

49. Given a feeding relationship below. Study and use it to answer questions that follow.

Maize ⟹ **hen** ⟹ **hawk** ⟹ **mushroom**

a) Name the type of feeding relationship shown above.

.....

b) Identify the secondary consumer from the above feeding relationship.

.....

c) How does a hawk obtain energy from maize?

.....

.....

d) State **one** characteristic of the above type of feeding relationship.

.....

.....

50. a) Give **one** difference between intercropping and cover cropping.

.....

.....

.....

b) State any **two** advantages of growing cover crops alongside other crops.

(i) .....

.....

(ii) .....

.....

c) Why do tomato farmers pinch off some leaves and branches from their tomato plants?

.....

.....

51. a) Name any **two** sources of materials used in local technology.

(i) .....

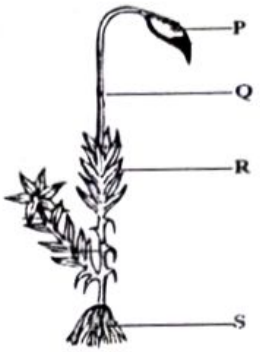
(ii) .....

b) Give any **two** examples of materials made using local technology.

(i) .....

(ii).....

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



a) Name the plant shown in the diagram above.

.....

b) What name is given to part marked **S** on the plant above?

.....

c) State the role played by part marked R on the diagram above.

.....

.....

d) Which part of a mushroom has the same function as part marked P?

.....

53. Agaba wanted to experiment rectilinear propagation of light. She was provided with the following materials. **Three cardboards of the same size, modelling clay, string, drill** and **a table**.

a) Identify **one** item missing in Agaba's list for a successful experiment.

.....

b) What should be Agaba's first step in conducting the experiment?

.....

.....

c) What will Agaba use modeling clay for in her experiment?

.....

d) In her experiment, describe what proves that light travels in a straight line.

.....

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.....

54. a) What first aid can be given to someone with a small insect in an ear?

.....

b) Give two reasons why accident victims are given first aid.

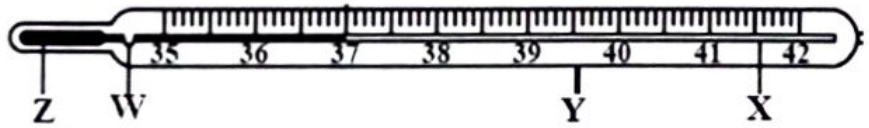
(i) .....

(ii) .....

c) Name the first aid equipment used to prevent cross infections when giving first aid to wounded people.

.....

55. The diagram below shows a certain thermometer. Study and use it to answer questions that follow.



a) Name the type of thermometer shown in the diagram above.

.....

b) Which thermometric liquid is used in the type of thermometer above?

.....

c) State the role of part marked **W** on the thermometer above.

.....

.....

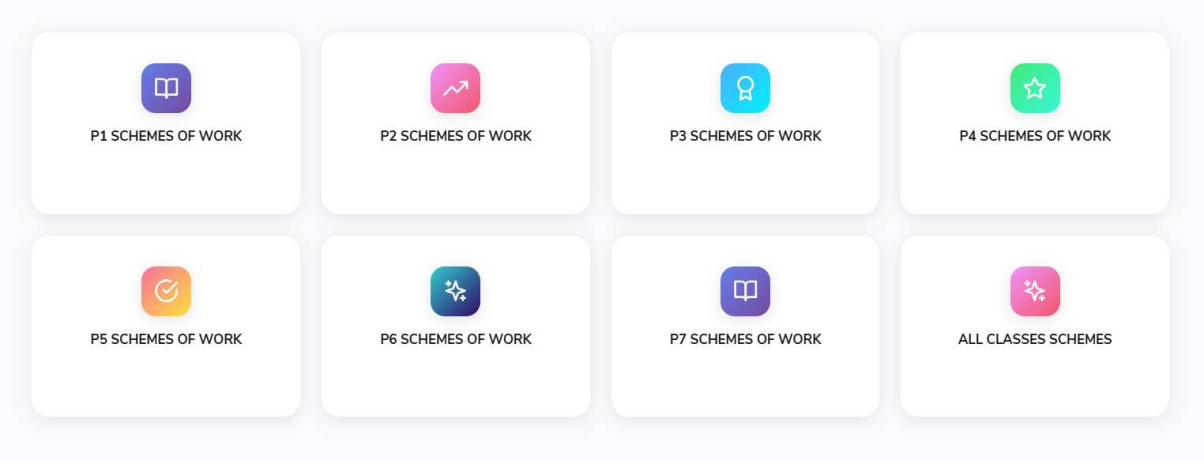
d) Give a reason why a school nurse is supposed to have a clinical thermometer.

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End

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