NEXT EXAMINATIONS BOARD

# PRE-PLE SET 3 (EAGLE)

| 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 **16 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

1. Give a reason why yeast is used in baking.

   .....

   .....

2. State the law of refraction of light.

   .....

   .....

   .....

3. Give **one** reason why greenhouses are usually covered with translucent materials.

   .....

   .....

4. Which form of **PWDs** is characterized by the malfunction in hearing?

   .....

5. State **one** factor that determines the strength of an induced magnet.

   .....

6. Give one-way non-biodegradable waste can be used to promote security at home.

   .....

   .....

7. Give one-way calyx and leaves are similar in their function.

   .....

8. Give any one sign / symptom of candidiasis in females.

   .....

9. Which special adaptation makes a toad able to live on both land and in water?

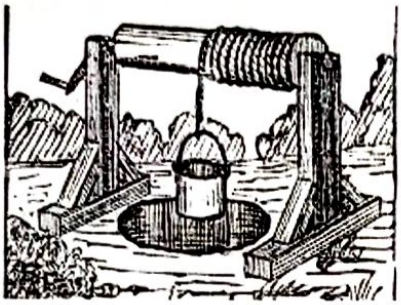
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.....

10. Apart from coccidiosis, cite **one** other protozoan disease among poultry.

.....

**Use the diagram below to answer question 11 and 12.**



11. Identify the above group of simple machines.

.....

12. State **one** application of the above machine in our daily lives.

.....

.....

13. Give any **one** way that can be used to prevent dehydration in children.

.....

14. State the similarity between the diaphragm of the lens camera and the iris of the human eye in their function.

.....

.....

15. Why are babies at a higher risk of suffering from protein deficiency than adults?

.....

.....

16. State any **one** way the lubrication of the pivot of a pair of scissors improves its working.

.....

.....

17. Give any **one** cause of myopia.

.....

.....

18. State one-way information collected on housing during a health survey benefits the government.

.....

.....

19. How do cats benefit from maize plants in same environment?

.....

.....

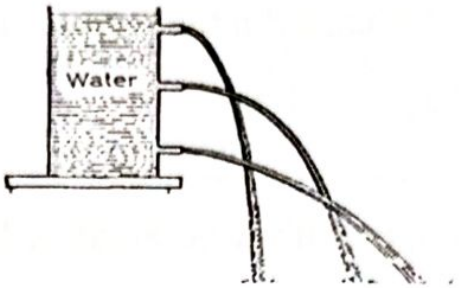
20. State the difference in structure of a concave lens and a convex lens.

.....

.....

.....

The diagram below shows a certain property of matter. Use it to answer question **21**.




21. Which property of liquids is shown in the diagram above?

.....

22. Give any one-way heat affects matter in liquid state.

.....

23. Which crop growing practice is carried out by a farmer to manage seeds that fail to germinate in the garden?

.....

24. How does sound from a roaring lion reaches an antelope in the bush?

.....

25. Explain how you can recover salt crystal from a salt solution.

.....

.....

26. Why do tobacco smokers develop high blood pressure with time?

.....

.....

27. State **one** reason why rabbits are easier to keep than cattle.

.....

.....

28. In which type of soil does water move up fastest?

.....

29. How do intercostal muscles aid inhalation?

.....

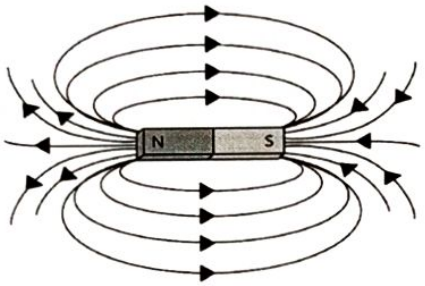
.....

30. Give one-way blood vessels under the skin help the body to cool on a hot day.

.....

.....

The diagram below shows a certain property of magnets. Use it to answer question 31 and 32.




31. Name the property of magnets shown in the diagram above.

.....

32. How is the magnet shown in the diagram above different from the Earth as a magnet?

.....

.....

33. Give **one** way how pit latrines help in the control of water contamination in the community.

.....

.....

34. Which health condition results from wear and tear of cartilage at the joint?

.....

35. Give any **one** sign / symptom of worm infestations in children.

.....

36. How does soil promote animal conservation in the environment?

.....

.....

37. State the importance of a damp-proof course put in the foundation of a house during construction.

.....

.....

38. Mention **one** practice in milking which ensures collection of clean milk.

.....

39. How is a tortoise different from a turtle yet both are reptiles?

.....

.....

40. State one adaptation of white blood cells to their function in the body.

.....

.....

## 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.

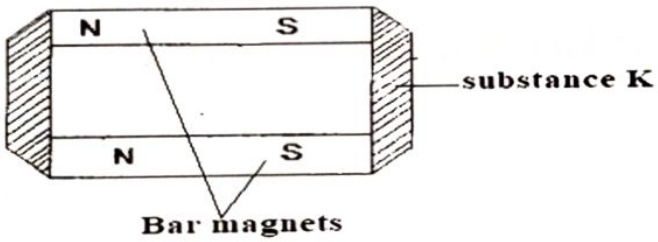
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d) Give one-way poultry diseases affect a poultry farmer.

.....

.....

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.

.....

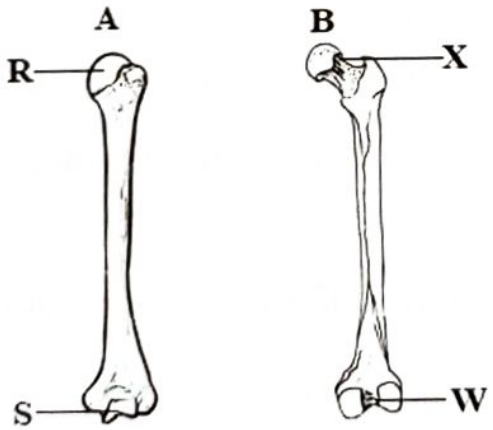
c) Cite **one** measure that can be taken to protect water wells from contamination.

.....

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

.....

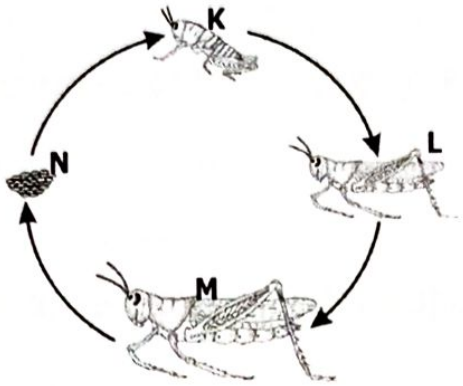
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c) How does self-awareness as a life skill help one to avoid drug abuse?

.....

.....

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) .....

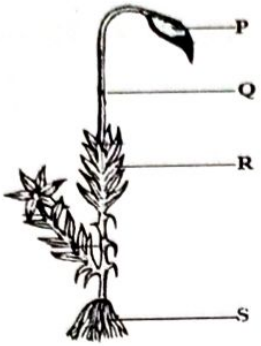
(ii) .....

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. Shalom 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 Shalom's list for a successful experiment.

.....

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

.....

.....

c) What will Shalom 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.

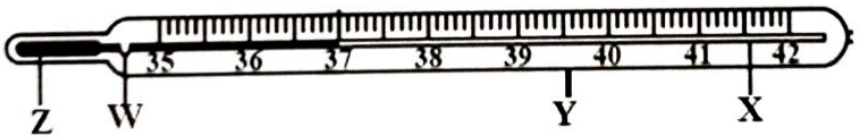
(i) .....

(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.

.....

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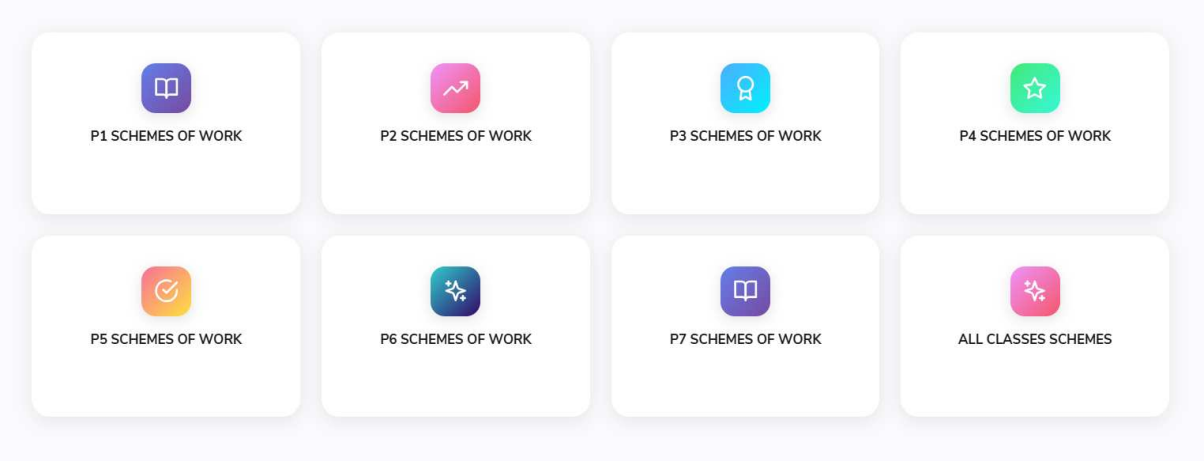
d) How is part marked **X** adapted to its function?

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**END**

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