NEXT EXAMINATIONS BOARD

PRE-PLE SET 1 (TIGER)

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: 40marks

1. How does the use of electricity for cooking promote wood fuel conservation?

   .....

   .....

2. Give any one way the use of drugs by an individual may encourage the spread of HIV/AIDS in the community.

   .....

   .....

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 a reason why a blue tin appears blue.

   .....

   .....

6. Give one advantages of processing milk into other products like yoghurt, butter etc.

   .....

   .....

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

   .....

   .....

8. How does poverty lead to malnutrition among people in a family?

.....

.....

9. How does breathing through the mouth affect the respiratory system?

.....

.....

10. Besides making food soft and killing germs, mention one other 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 way the lack of health education contributes to high mortality in the community.

.....

.....

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

.....

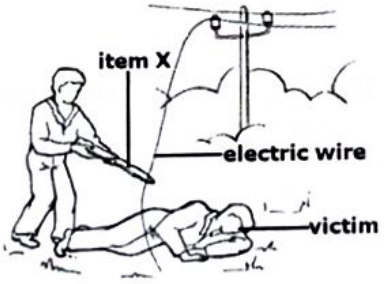
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17. State one difference between a clinical and six's thermometer.

.....

.....

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 one disadvantage of low friction on roads.

.....

.....

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

.....

.....

22. Why are seeds planted in clay soil at a high risk of rotting rather than germinating?

.....

.....

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.

.....

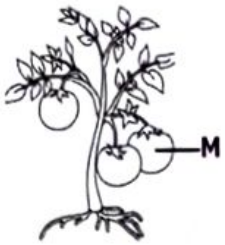
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26. How does the speed of rotation of a dynamo affects the amount of electricity it produces?

.....

.....

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 way the good behaviour of a teacher help to prevent truancy.

.....

.....

32. Why are organic materials decomposed in an open area unable to produce biogas?

.....

.....

33. Why do commercial poultry farmers prefer artificial brooding to natural brooding?

.....

.....

34. State the reason why a ship which is made from sinking materials, does not sink.

.....

.....

35. How does having enough rest and sleep help to maintain body health?

.....

.....

36. Give one reason why you would choose to propagate your onions by bulbs rather than seeds?

.....

.....

37. Identify the type of skeleton in arthropods.

.....

38. Explain how the widening of blood vessels under the skin helps to cool the body on a hot day.

.....

.....

39. How do echoes help sailors to avoid water accidents?

.....

.....

40. Give any one effect of HIV/AIDS to an individual.

.....

.....

SECTION B (60 MARKS)

41. a) Name one crop attacked by each of the following diseases.

(i) Brown streak disease: .....

(ii) Cigar end rot disease:.....

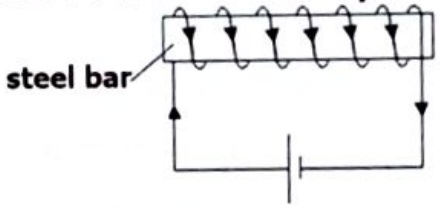
b) State any one way a crop farmer can identify disease attack in his crops.

.....

c) Give any one-way crop farmers can control diseases in their crops without using chemicals.

.....

42. ***The diagram below shows a method used to make temporary magnets. Use it to answer questions that follow.***



a) What name is given to the magnet the steel bar will become after magnetization?

.....

b) On the steel bar, use an arrow and letter N to show the end that will become the South pole after magnetization.

c) State any way the above method of magnetization is useful in our daily life.

.....

d) What should be observed in order to produce a strong magnet by the above method?

.....

.....

43. After milking his cow, Davis observed some pus-like substances and blood clots in milk.

a) Which disease was his cattle suffering from?

.....

b) State one measure Davis would take to prevent the disease from spreading to other cows on the farm.

.....

.....

c) Mention any two practices you would recommend to Davis to enable his cow stay calm and less stressed during the milking process.

(i) .....

(ii) .....

44. **The diagram below shows dispersal in plants. Study and use it to answer questions that follow.**



a) Which type of dispersal is undergone by the above seeds?

.....

b) State any one characteristic of the above seeds to the mode of dispersal named in (a) above.

.....

.....

c) Give any two reasons why seed dispersal is important in the environment.

(i) .....

.....

(ii) .....

.....

45. a) Mention one form of poor sitting posture.

.....

b) Give any one-way poor posture affects the skeletal system.

.....

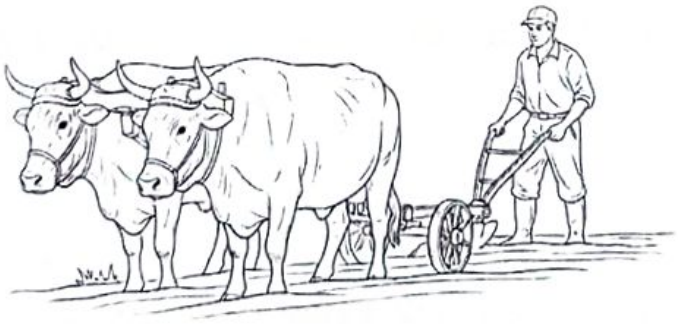
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c) Besides observing proper posture, state two other ways of maintaining proper health of the skeletal system.

(i) .....

(ii) .....

46. **The diagram below shows how animals can be used as an energy resource. Study and use it to answer questions that follow.**



a) Identify the activity done by the animals above.

.....

b) What type of cattle provides labour used to do the activity above?

.....

c) State any two ways of conserving animals as a resource in the environment.

(i) .....

.....

(ii) .....

.....

47. **VHTs carried out a survey on immunisation in Kito village. The table below shows the number of children in each age group who had not been immunised. Study the table and answer the questions that follow.**

Age bracket	0 – 1 month	2 – 5 months	6 – 11 months
Number of children	140	112	87

a) Suppose the government is to provide vaccines to vaccinate the above children, name one specific vaccine that should be provided in the largest quantities.

.....

b) Which age bracket requires a vaccine that boosts children's immunity against pertussis?

.....

c) Besides using it to know the right quantity of vaccines to be provided, state two other ways the government can use the above information.

(i) .....

.....

(ii) .....

.....

48. a) Beside the position of pivot, load and effort, mention one other characteristic of first class levers.

.....

.....

b) Give one example of a lever under the first class.

.....

c) A one-meter ruler was pivoted at the 60cm mark and a weight of 20N was hang at the 80cm mark. What is the size of the force that should be applied at the 20cm mark for the ruler to balance? (**2marks**)

49. a) State **two** laws of reflection of light.

i.....

.....

ii .....

.....

b) Mention any one way reflection of light is useful to people.

.....

.....

c) Give a reason why a plane mirror produces a regular reflection of light.

.....

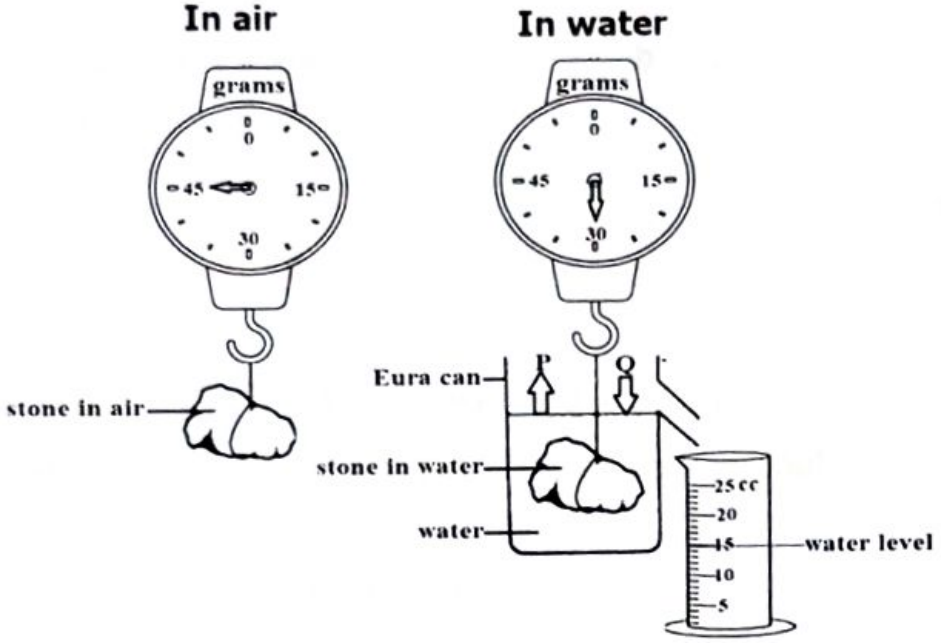
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d) Write one measure an apiarist can take to prevent his bees from leaving the colony.

.....

.....

50. A stone of was measured both in air and in water as shown in the diagram below. Study the diagram and answer questions that follow.



a) State the actual mass of the stones.

.....

b) Which force does arrow **Q** represent?

.....

.....

c) Why was the mass of the stone measuring less in water than in air?

.....

.....

d) If there was 60cc of water in the eureka can, how much water remained in the can after the stone was immersed?

.....

51. After obtaining juice from ripe bananas, Kenny added water and roasted millet to the juice.

a) By what process does the mixture turn into alcohol?

.....

b) Why did Kenny add roasted millet to the juice?

.....

.....

c) Give any one use of alcohol in each of the following fields.

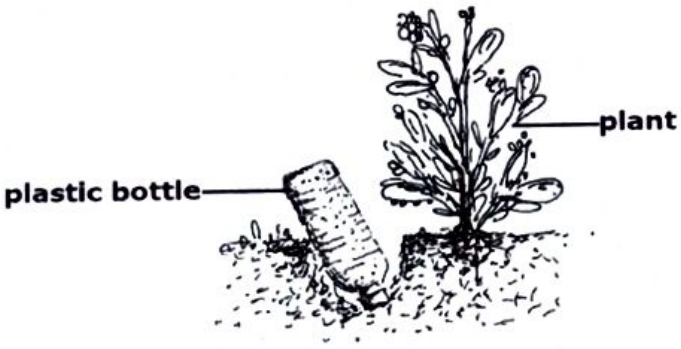
(i) Medical field:.....

.....

(ii) Transport field:.....

.....

52. The diagram below shows a plant being irrigated using a plastic bottle. Study and use it to answer questions that follow.



a) Which wastes management practice in the 5Rs does the above practice promote?

.....

b) How does the above practice in waste management help to reduce soil pollution?

.....

c) Give any two reasons why waste bins with different types of waste should be marked / coded.

(i) .....

.....

(ii) .....

.....

53. Mention any two examples of primary sex characteristics among;

a) Males

(i) .....

(ii) .....

b) Females

(i) .....

(ii) .....

54. Primary five pupils were provided with two balloons of the same size, threads, a straight piece of stick, a needle and a string. Explain how they used the materials to demonstrate the property "**air has weight**"

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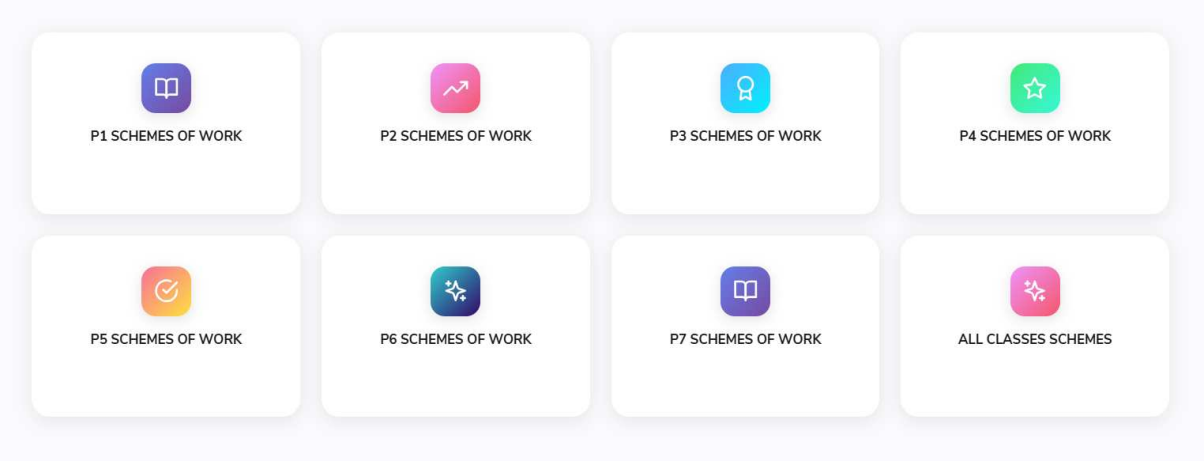
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55. The table below is about four different groups of birds. Study and complete it correctly.

Group	**Beak type**	**Foot type**
....	Spoon shaped	Fully webbed
Birds of prey	....	Sharp curved talons
Scratching bird	Strong firm beak	.....
....	Spear-like	Partly webbed

End

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