NEXT EXAMINATIONS BOARD

PRE-PLE SET 7 (PANTHER)

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		

1. State one importance of seed selection before planting.

   .....

   Give a reason why it is difficult for one to view him/herself in a mirror that has been breathed on several times.

   .....

   .....

2. State the reason why dew is formed at night.

   .....

3. State one effect of nicotine to a tobacco smoker.

   .....

4. State one way the bones are important to the circulatory system.

   .....

5. Mention one way of conserving charcoal at home apart from using energy saving stoves.

   .....

6. Give one way information and health education is an important element of PHC.

   .....

7. Mention one way the supply of clean water in rural areas is being improved.

   .....

8. State one way people get infected by tetanus.

   .....

9. State one reason why air is important in the soil.

   .....

10. Give a reason why adolescent girls are advised to feed on enough green leafy vegetables.

.....

11. A married couple has 15 children, the oldest is 15years and the youngest is 3months. State one health problem the mother may face.

.....

12. State the reason why it is advisable to cover the mouth with a handkerchief when sneezing.

.....

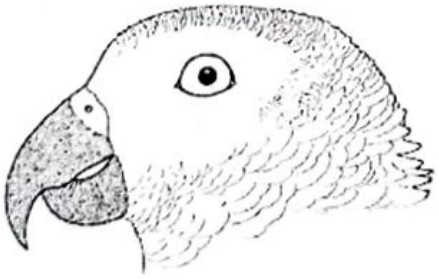
13. Name the mammal in Uganda that lives both in water and land.

.....

14. Derrick had a container with lime water and breathed through it several times. State what happened.

.....

Use the diagram below to answer questions **16** and **17**



15. Identify the type of food eaten by the above bird.

.....

16. Name the group of birds to which the above bird belongs.

.....

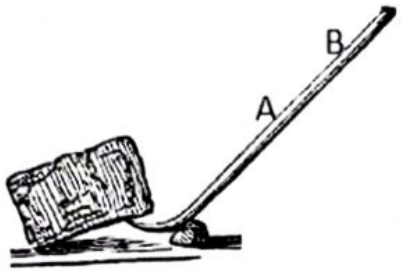
17. State the principle on which shadows are formed.

.....

18. Ethan dropped a leaf and stone from the same height, give a reason why the leaf reached the ground last.

.....

Use the diagram below to answer question **20** and **21**.



19. Use an arrow on the above diagram to show the direction of the effort.
20. Give a reason why Emma would use less effort to overcome the load while touching a**t B** than at **A**.

.....

.....

21. Name the type of change that takes place when one eats food to get energy.

.....

22. Give a reason why people with **HIV/AIDS** should not be isolated.

.....

23. State one way lack of money in a family encourages drug misuse.

.....

24. Agnes used water to put out petrol fire. State the disadvantage of her practice.

.....

25. Name the condition caused by shortage of red blood cells in the body.

.....

26. State one reason why vaccines are kept under cold chains.

.....

27. Alex keeps left over food well covered. State the reason why the food still goes bad after some time.

.....

28. State the first aid you would give to a person with an insect in the ear.

.....

29. Give a reason why mango fruits are likely to be dispersed by man.

.....

30. State the disadvantage of having anthills near a maize garden

.....

31. On a hot day a boy was running but didn't have a lot of sweat on the face. Immediately he came under shade, the whole face was full of sweat. Explain the reason for too much sweat under shade.

.....

.....

32. State one reason why farmers prefer cross breeds to exotic breeds.

.....

33. Mention the reason why car tyres wear out quickly on tarmac roads than marram roads.

.....

34. Give one difference between the air we breathe in from the air we breathe out.

.....

.....

35. Give one way animals are important during photosynthesis.

.....

36. Mention the reason why it is not advisable to give a drink to a person that is convulsing.

.....

37. Name the part that protects the growing embryo by closing the lower end of the uterus.

.....

38. Give a reason why people are able to hear more clearly at night than during day.

.....

.....

39. Give a reason why married couples should treat gonorrhea together in case of an infection.

.....

40. Give a reason why toads lay very many eggs.

.....

41. a) Give a reason the queen excluder is made of small wires.

.....

b) state the reason why the poles for hanging bee hives are smeared with engine oil.

.....

c) Mention one difference in structure between a work bee and a queen bee.

.....

.....

a) Apart from ripe banana, state one other bait used I stocking a hive.

.....

42. Use the diagram below to answer questions that follow.



b) Name the source of heat used in firing bricks.

.....

c) State the danger of using the above source of heat to the environment.

.....

.....

d) Give a reason why bricks are covered with mud before firing.

.....

e) State one way brick making encourages the spread of malaria.

.....

.....

43. a) Identify two activities that a health committee should do in a village.

i).....

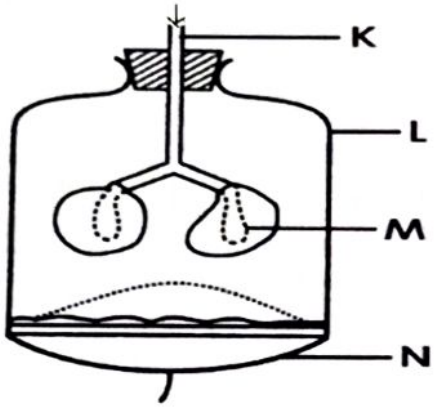
ii).....

b)State two ways of caring for the disabled as vulnerable groups of people.

i).....

ii).....

44. Study the diagram below and use it to answer the questions about it.



(a) Identify the system of the body illustrated above.

.....

(b) What does the part labelled **N** represent in the system of the human being?

.....

(c) Which type of breathing is illustrated above?

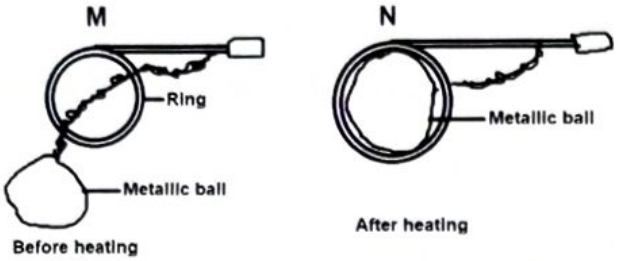
.....

(d) Give a reason why there is change in percentage of inhaled and exhaled carbon dioxide

.....

.....

45. The diagram below shows an experiment carried out by Chloe. Use it to answer questions that follow.



a)Identify the state of matter affected by heat in the experiment above.

.....

b)Give the reason why the metallic ball failed to pass through the ring at **N**.

.....

c)State what should be done for the metallic ball to pass through the ring.

.....

d)What does the experiment above show about matter?

.....

46. a) Name the germ that causes polio.....

b) Explain how immunization with polio vaccine protects children against polio. **2marks**

.....

c) Apart from immunization, state one other way of controlling polio.

.....

47. a)Name the group of tuber crops.

.....

b)Give any two reasons for preserving tuber crops after harvesting.

i).....

ii).....

c)How is propagation of a carrot different from that of the sweet potato

.....

48. a) Give the main reason why farmers keep each of the following;

i)white leghorn.....

ii)light Sussex.....

b) State two reasons why some farmers prefer rearing cross breeds to exotic breeds.

i).....

ii).....

49. a) State two factors to consider before starting a family garden.

i).....

ii).....

b) State two ways in which the family members benefit from a family garden.

i).....

ii).....

50. Use the list of plants below to answer questions that follow.

A	B
Pine	**moss**
Cypress	**liverwort**
Ginkgo	**fern**

a) state one way plants in list **A** are

i) similar to those in **B**

.....

ii) different from those in **B**

.....

b) State one way cotyledons are useful to a bean seedling.

.....

c) Name the type of germination common in monocotyledonous plants.

.....

51. a) Give the meaning of the term matter.

.....

b) Mention one characteristic of gases.

.....

c)State one way the following physical processes are important in our daily lives.

i) freezing.....

ii) evaporation.....

52. a) State one way feeding on a balanced diet helps in proper functioning of the circulatory system.

.....

b) Apart from feeding on a balanced diet, state one way of caring for the circulatory system.

.....

c)Give the function of each of the following component of blood

i) platelets.....

ii) plasma.....

53. a) Apart from polythene bags, name two other materials that are harmful to soil.

i).....ii).....

b) State any two harmful effects of polythene bags on soil.

i).....

ii).....

54. match items in list A with those in list B

A	B
fulcrum	ratio of load to effort
mechanical advantage	fixed point at which a machine turns
Fulcrum	ratio of effort distance to load distance
Velocity ratio	percentage of work output to work input

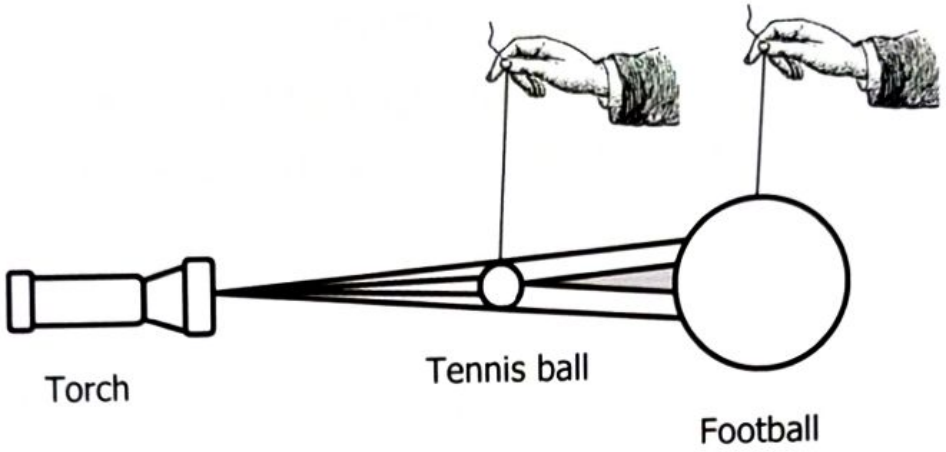
fulcrum .....

mechanical advantage.....

efficiency.....

velocity ratio.....

55. In an experiment below, an electric torch, tennis ball, football were used to demonstrate how an eclipse is formed. Study it and use it to answer questions that follow.



a) Identify the type of eclipse demonstrated above.

.....

b) State what the following represent in the experiment.

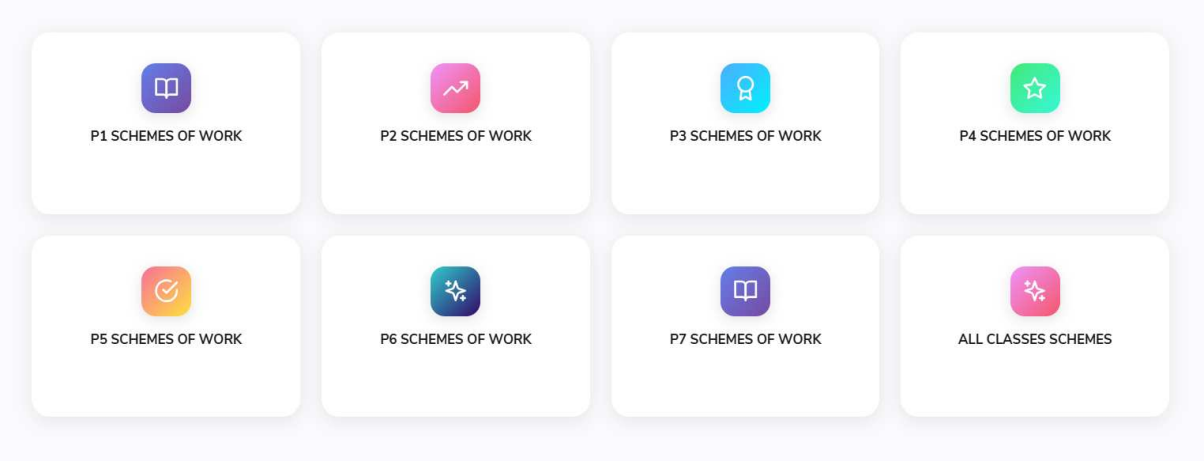
i) Tennis ball.....

ii) Football.....

c) State one importance of shadows in the environment.

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