NEXT EXAMINATIONS BOARD

PRE-PLE SET 13 (HAWK)

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: 40 MARKS

Answer all questions in this section.
Questions **1** to **40** carry **one mark** each.

1. Mention the body organ that produces urine.

   .....

2. Determine the type of electricity gained by a plastic pen when rubbing on the hair.

   .....

3. Identify the type of change that occurs when one burns a piece of wood to ash.

   .....

4. Give **one** use of vultures in the environment.

   .....

5. Point out the material used to remove germs from our hands after a latrine visit.

   .....

6. Write down any **one** example of a water pollutant.

   .....

7. Mention any **one** way of managing sunny weather.

   .....

8. Write **one** example of an energy resource got from plants.

   .....

9. Indicate the body system that is affected by malaria parasites.

   .....

10. Define the term "vulnerable groups of people".

    .....

    .....

11. Suggest **one** reason why the trachea is able to remain open all the time.

.....

.....

12. Identify the characteristic of a VIP latrine which makes it different from other latrines.

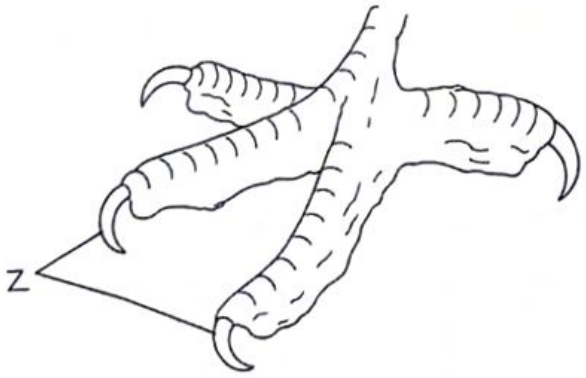
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13. Provide any **one** reason why crop farmers always dry their harvested seeds before storing them.

.....

.....

The diagram below shows a foot of a bird. Use it to answer questions **14** and **15**.



14. Name the structure marked **Z**.

.....

15. Determine the function of structure **Z** to an eagle.

.....

16. Identify the type of blood commonly carried by most arteries.

.....

17. State any **one** way how short circuits are dangerous.

.....

.....

18. Name the body part where blood cells are made.

.....

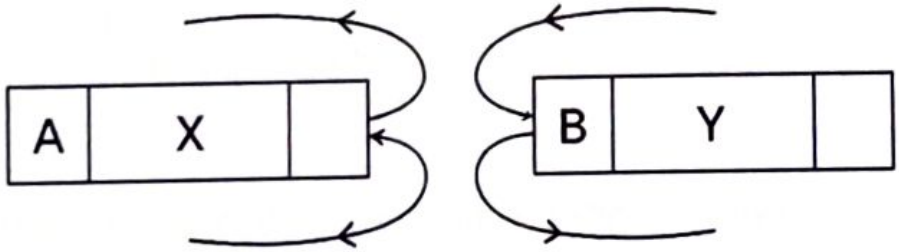
19. Determine the ear disorder caused by having too much ear wax.

.....

20. Write the commonest way through which tapeworms enter the human body.

.....

Study the illustration below carefully and answer the questions **21** and **22**.



21. Identify the property of magnets shown above.

.....

22. Name the pole marked **A**.

.....

23. State the main role of the sun in the food chain.

.....

24. Mention **one** way in which drought affects crop production.

.....

.....

25. Give the use of a cotyledon in a bean seed.

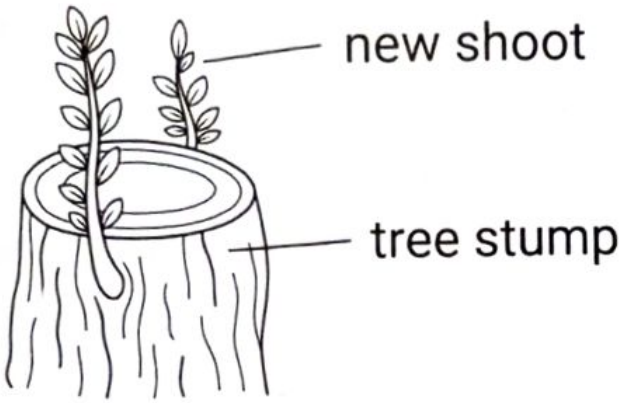
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26. Identify the natural change that is prevented through conserving swamps.

.....

The diagram below shows a method of harvesting trees. Use it to answer questions **27** and **28**.



27. Name the method of harvesting trees shown above.

.....

28. Give any **one** suitable benefit of a tree farmer who uses the above method of harvesting trees.

.....

29. Cite out the best way how a school girl can avoid early pregnancy.

.....

.....

30. Identify any **one** craft item got from sisal.

.....

31. Give **one** reason why invalid people should be given meals containing proteins.

.....

.....

32. Name the sanitary facility used to clean hands after a latrine visit.

.....

33. Write **one** advantage of steaming up in cattle management.

.....

.....

34. As a P.7 pupil, give **one** role you can play to promote immunisation in your community.

.....

.....

35. Mention **one** method used by crop farmers to prevent soil exhaustion.

.....

36. State what happens to a sound wave when it meets a soft surface.

.....

.....

37. Give **one** way in which Vitamin D helps in the prevention of rickets.

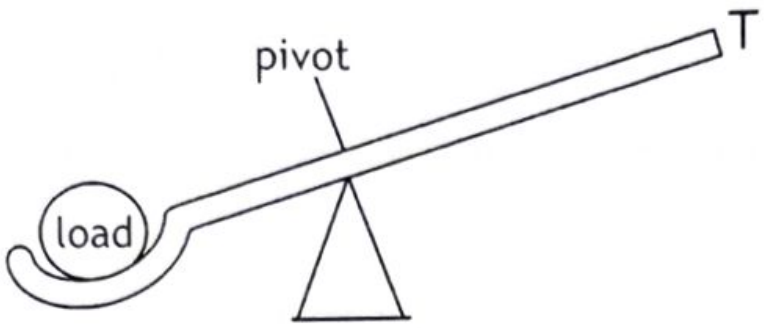
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38. Name the animal fibre obtained from merino sheep.

.....

The diagram below shows a simple machine. Study and use it to answer questions **39** and **40**.



39. Identify the class of simple machines where the above machine belongs.

.....

40. Give **one** reason why a person is likely to use less effort at point T when using the above machine.

.....

.....

SECTION B: 60 MARKS

Answer **all** *Questions in this section.*

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

41. Okello eats sweets daily and brushes teeth once a week.

(a) Identify the tooth disease that Okello is likely to contract.

.....

(b) Name the health habit that Okello is supposed to do daily for his teeth to be free from the disease mentioned in (a) above.

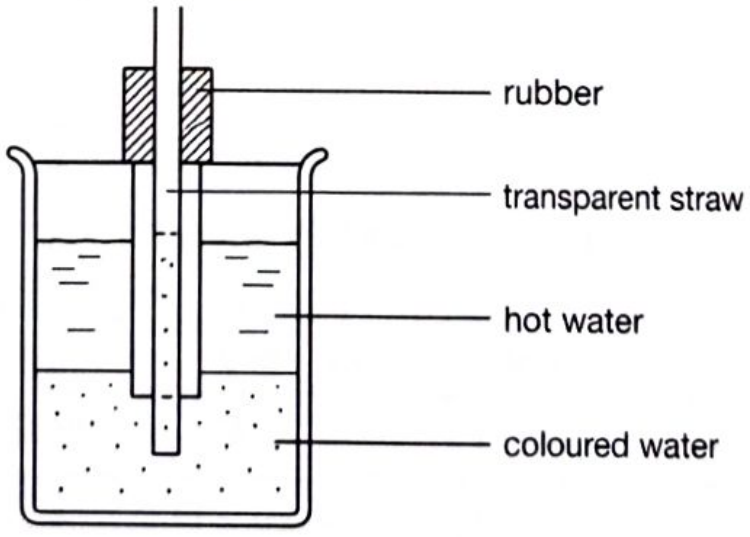
.....

(c) Apart from brushing teeth, mention any other **two** ways of caring for the teeth.

(i) .....

(ii) .....

42. The diagram below shows an experiment carried out by P.5 pupils of Good Hope Primary School. Study and use it to answer questions that follow.



(a) Identify what the experiment above demonstrates.

.....

(b) Give a reason why coloured water was able to rise in the straw.

.....

(c) Name the reason why coloured water was used.

.....

(d) Suggest any **one** importance of heat energy in the environment.

.....

43. (a) Mention **one** irregular object that can be found in a school compound.

.....

(b) State the reason why an object weighs less when it is in water than when it is in air.

.....

.....

(c) Calculate the density of a piece of soap that has mass of 60 g and volume of 30 cm^3 (*02 marks*)

44. The table below is about the skeletal system. Study and complete it correctly.

Bones	**Location**	**Joint**
Neck vertebrae	Neck	.....
.....	shoulder	.....
Humerus/radius/ulna	.....	Hinge
Cranium	.....	Suture

45. (a) Give the meaning of the term **air**.

.....

.....

(b) Mention the component of air which helps in preservation of semen during artificial insemination.

.....

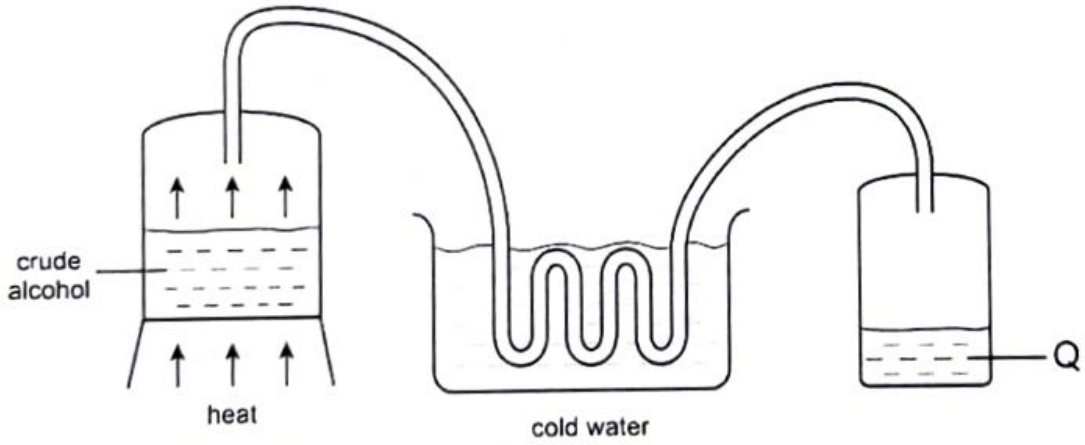
(c) Name the component of air used in fire extinguisher.

.....

(d) Give **one** way in which air in motion is important to a crop farmer.

.....

46. The diagram below shows a method of making alcohol. Study and use it to answer the questions that follow.



(a) Name the method of making alcohol in the diagram above.

.....

(b) Give **one** physical process involved in the method of making alcohol above.

.....

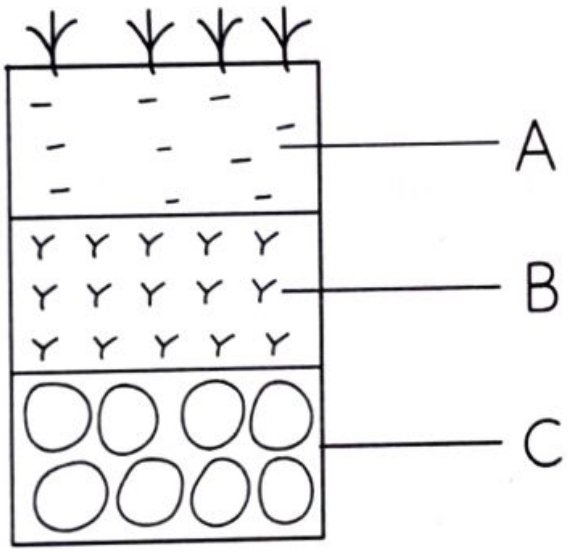
(c) Identify the substance marked **Q**.

.....

(d) State any **one** use of alcohol to a health worker.

.....

47. The diagram below shows the arrangement of soil layers. Study and use it to answer questions that follow.



(a) Name the soil layers marked:

(i) **B** .....

(ii) **C** .....

(b) Give a reason why layer **A** is suitable for plant life.

.....

.....

(c) Identify the type of soil suitable for making ceramics.

.....

48. (a) Suggest **one** reason why babies are referred to as vulnerable.

.....

(b) Name other **two** groups of vulnerable you know.

(i) .....

(ii) .....

(c) Give **one** reason why babies should be taken for immunisation.

.....

.....

49. (a) Give the meaning of the term **light reflection**.

.....

.....

(b) Name the optical instrument used to see around corners.

.....

(c) State the reason why a red cup appears red into your eyes.

.....

.....

(d) Mention **one** use of light energy to you as a P.7 child in the classroom.

.....

.....

50. The diagrams below show the components of the circulatory system. Study and use them to answer the questions that follow.



(a) Identify the blood vessel marked B.

.....

(b) State the functional difference between blood vessels **A** and **B**.

.....

.....

(c) Mention any **one** material carried in blood through the blood vessel **A**.

.....

(d) White blood cells defend the body against disease causing germs, give **one** way in which the white blood cells are adapted to their function.

.....

.....

51. (a) Briefly explain the meaning of the term **immunity**.

.....

.....

(b) Write down **two** types of vaccines.

(i) .....

(ii) .....

(c) Give a reason why vaccines are stored in cold chain boxes.

.....

.....

52. (a) Name the **two** main sources of food in the environment.

(i) .....

(ii) .....

(b) Write down any **one** food stuff rich in carbohydrates.

.....

(c) Name the disease caused by the deficiency of Vitamin D in the body.

.....

53. Mukasa felt a lot of pain after stepping on a hot metal with his bare foot.

(a) Identify the body sense that enabled Mukasa to feel pain.

.....

(b) Apart from the body sense mentioned in (a) above, name any other **two** body senses you know.

(i) .....

(ii) .....

(c) Give the use of the tongue as a sense organ.

.....

54. In **four** steps, explain how rain is formed.

(i) .....

.....

(ii) .....

.....

(iii) .....

.....

(iv) .....

.....

55. The table below shows the garden tools in part **A** and their functions in part **B**.

A: Garden tool	**B: Function**
Rake	For collecting weeds
Secateur	For pruning
Trowel	For transplanting seedlings
Garden fork	For turning manure

Match correctly the garden tools with their functions in the space provided below.

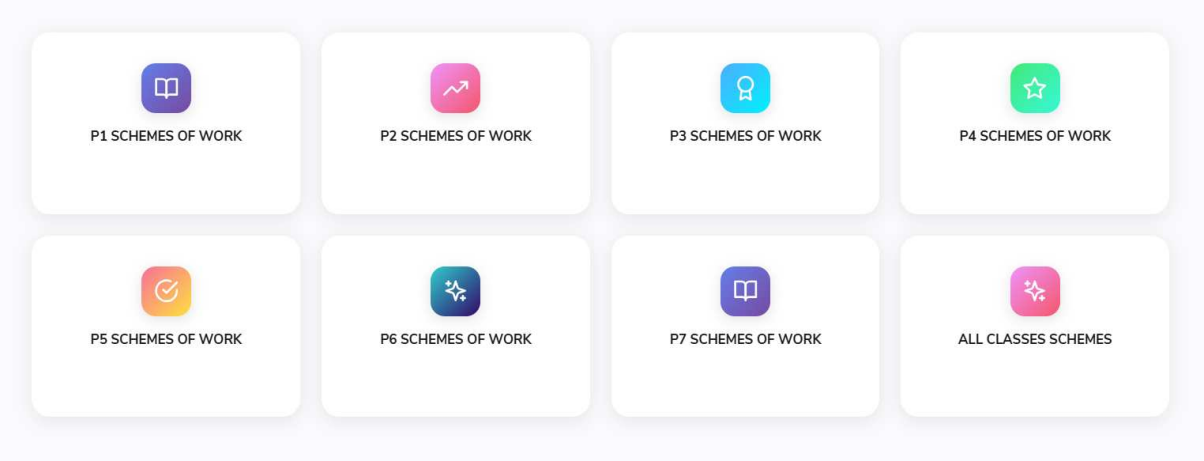
(i) Rake.....

(ii) Secateur.....

(iii) Trowel .....

(iv) Garden fork .....

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