NEXT EXAMINATIONS BOARD

PRE-PLE SET 15 (SHARK)

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 (40 MARKS)

1. Identify the renewable source of energy used to produce hydro-electricity.

   .....

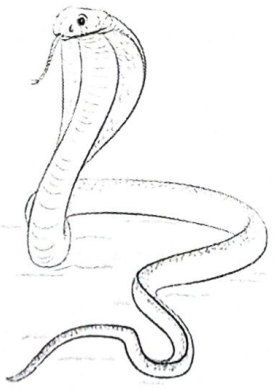
2. Give **one** way in which pollarding as an agro-forestry practice is beneficial to a coffee farmer.

   .....

3. State the type of change that occurs when an iron nail is left in a damp place and turns brown.

   .....

Use the diagram of a reptile below to answer question 4.



4. State one characteristic that can be used to identify the above snake as a venomous snake.

   .....

5. Give a reason why a bat is grouped under mammals yet it spends most of its time flying.

   .....

6. Mention **one** activity done by a school health club to promote hygiene in a community.

.....

7. State the importance of chlorine during the purification of water for large communities.

.....

8. Explain the function of the epididymis in the human male reproductive system.

.....

9. Give **one** reason why sand soil is not suitable for the construction of a fish pond.

.....

10. Write down one way of avoiding drug dependence among adolescents.

.....

11. Give a reason why a farmer should carry out thinning on a nursery bed.

.....

12. State one difference between burning and rusting.

.....

.....

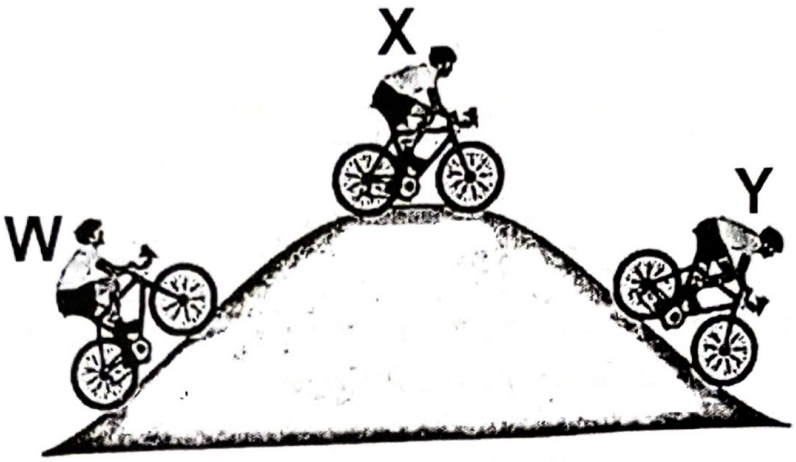
13. Write one way in which mulching helps to manage weather changes in a garden.

.....

14. Give a reason why a farmer should provide colostrum to a newly born calf.

.....

The diagram below shows a boy riding a bicycle on a hill. Study and use it to answer question 15.



15. Explain why the boy finds it easier to ride the bicycle at point **Y** than at point **W**.

.....

.....

16. Identify the class of lever where the effort is located between the fulcrum and the load.

.....

17. State one danger of high population density on the availability of land for farming.

.....

18. Explain how the constriction helps to retain the mercury column after the thermometer is removed from the body.

.....

19. Give one way in which fungi are useful in the process of making bread.

.....

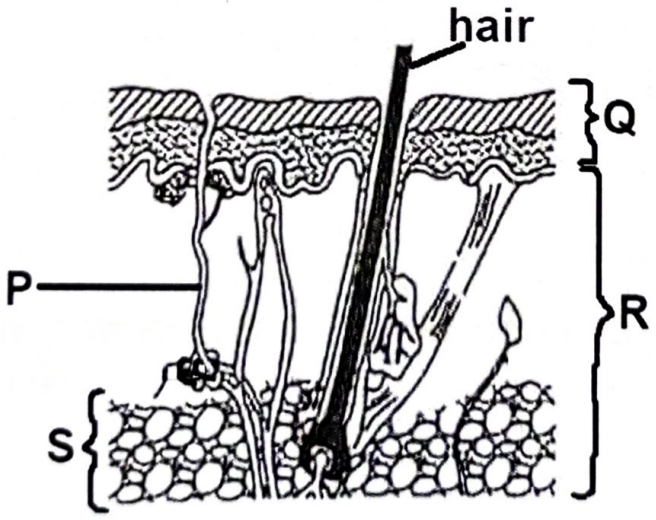
20. Identify the property of air demonstrated when a person uses a syringe to draw liquid medicine from a bottle.

.....

21. Mention any one practice of personal hygiene that prevents the spread of trachoma.

.....

The diagram below is of the structure of the human skin. Study and use it to answer questions 22 and 23.



22. State the function of the part labelled **P**.

.....

23. Identify the part on the diagram that contains the malpighian layer.

.....

24. Give a reason why proper posture is important when a pupil is carrying a heavy school bag.

.....

25. Identify the component of blood that helps in the clotting process after an injury.

.....

26. Name the main nitrogenous waste product excreted by the human kidneys.

.....

27. Mention one method used to recover common salt from a salt solution.

.....

28. Explain why a ship made of steel is able to float on water yet a small steel nail sinks.

.....

29. State one way in which anti-social behaviour can be controlled among young people.

.....

30. Identify the part of a flowering plant that develops into a seed after fertilization.

.....

31. Name the vaccine administered to a nine-month-old child to protect against measles.

.....

32. Give one reason why mercury is preferred over water for use in a thermometer.

.....

33. Mention one way in which animals benefit from the flow of energy in a food chain.

.....

The bar graph below shows records from a school nurse indicating the number of pupils who were sent home to get better medical treatment during the second week of term two 2026. ***Study and use it to answer questions 34 and 35.***



34. Identify the number of pupils that required to seek mainly a medical specialist during the week as shown on the graph.

.....

35. Mention any one way the least common disease in the graph is spread through the 4Fs chain.

.....

36. Give a reason why a fuse is used in an electric circuit.

.....

37. Identify the group of invertebrates to which a centipede belongs.

.....

38. State **one** danger of bush burning to the soil environment.

.....

39. Mention **one** way of preventing dental caries among school children.

.....

40. Give a reason why air is first filtered in the nostrils before it reaches the lungs.

.....

.....

SECTION B (60 MARKS)

41. (a) State the principle of moments as applied to levers.

.....

.....

(b) A girl applies a force of 60N to lift a load using a distance of 3 meters. Calculate the work done by the girl.

.....

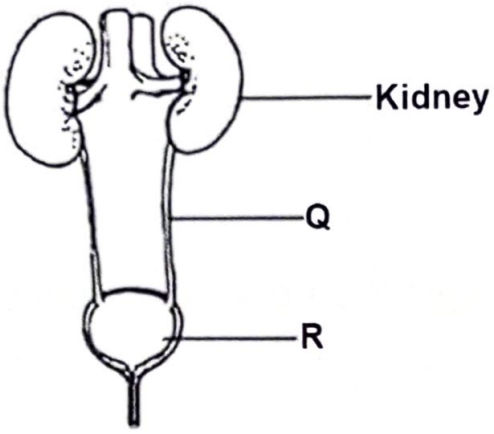
(c) Identify any **one** first-class lever used at home.

.....

(d) Give **one** way in which friction can be increased in a bicycle.

.....

42. The diagram is of the human urinary system. Study it carefully and use it to answer the questions about it.



(a) Name the part marked **Q**.

.....

(b) State the function of the part marked **R**.

.....

(c) Mention any **one** bacterial infection that affects the above body system.

.....

(d) Identify **one** habit that helps to keep the urinary system in a healthy condition.

.....

43. (a) Match the items in **Part A** with their correct meanings in **Part B.**

Part A	Part B
Immunization	Guarding food from the pests and diseases.
Food security	Keeping food safe from contamination.
The elderly	Having enough safe and nutritious food at all times.
Food hygiene	Protecting people against diseases using vaccines.
	A group of people who need special care.

Immunization.....

Food security.....

The elderly.....

Food hygiene.....

44. (a) Name **two** types of cattle breeds kept in Uganda.

i. .....
ii. .....

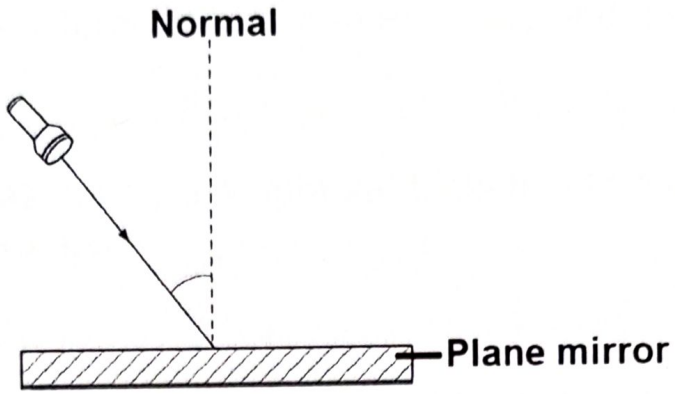
(b) State **one** method a farmer can use to improve local breeds of cattle.

.....

(c) Give **one** reason why some farmers carry out dehorning in cattle.

.....

45. The diagram below shows reflection of light on a plane mirror. Use it to answer the questions that follow.



(a) Complete and indicate the angle of reflection on the diagram.

.....

(b) State the relationship between the angle of incidence and the angle of reflection.

.....

(c) Mention any **one** device that uses plane mirrors to function.

.....

(d) Give **one** characteristic of an image formed by a plane mirror.

.....

46. (a) Identify the blood cells that are attacked by malaria parasites.

.....

(b) Name the chamber of the heart that pumps blood to all parts of the body.

.....

(c) State **one** difference between an artery and a vein.

.....

(d) Give a reason why the right ventricle has thinner walls than the left ventricle.

.....

47. *The feeding relationship below is of food chain which is written in a wrong order. Study and use it to answer the questions that follow.*

Eagle → Snake → Grasshopper → Grass → Frog

(a) Arrange the above organisms in the correct sequence of the food chain.

.....

(b) Name the organism that occupies the highest trophic level from the sequence in (a) above.

.....

(c) Mention **one** group of organisms that helps to return nutrients to the soil.

.....

(d) State one effect of removing the eagle from the food chain.

.....

48. (a) Name any **two** childhood immunisable diseases caused by bacteria.

i. .....

ii. .....

(b) State the importance of a child health card to a mother.

.....

(c) Identify the body site where the BCG vaccine is administered.

.....

49. (a) Mention any **two** natural changes that occur in the environment.

i. .....
ii. .....

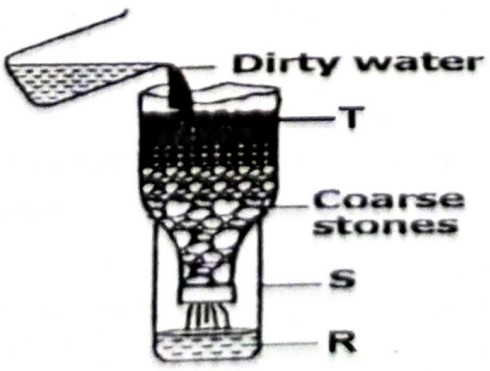
(b) State one difference between biological changes and physical changes.

.....

(c) Give **one** way people manage changes caused by soil erosion in their community.

.....

50. ***The diagram below shows a simple method of making water clean. Study and use it to answer the questions that follow.***



(a) Name the method of water purification shown in the diagram.

.....

(b) Give the function of the layer **T** in the filter above.

.....

(c) Mention one activity that can be done to swampy water before it is filtered.

.....

(d) Explain why filtered water should still be boiled before drinking.

.....

51. (a) State the law of magnetism regarding the poles of a magnet.

.....
.....

(b) Give any one property of magnetic materials.

.....

(c) A P.7 candidate wants to make a temporary magnet using a nail and a battery. Name the method of magnetization he should use.

.....

(d) State any **one** way of increasing the strength of an electromagnet.

.....

52. (a) State any two reasons why the sun is considered the main source of energy in the environment.

i. .....
ii. .....

(b) Give one way in which solar energy is used at home.

.....

(c) Mention one harmful effect of excessive heat from the sun on the environment.

.....

53. (a) Mention any **one** component of Primary Health Care.

.....

(b) Give a reason why community participation is important in PHC programs.

.....

(c) Identify any **two** responsibilities of the community in promoting health in market centres.

i. .....
ii. .....

54. (a) Name any two non-living resources found in the environment.

i. .....
ii. .....

(b) State one way of managing non-renewable resources.

.....

(c) Explain how renewable resources such as plants and animals can become exhausted.

.....

.....

55. The following are the steps taken when putting out a fire using a fire extinguisher. They are written in the wrong order. Rearrange them to form the correct order.

i. Squeeze the handle of the fire extinguisher.
ii. Sweep from side to side.
iii. Aim at the base of the fire.
iv. Pull the pin of the fire extinguisher.

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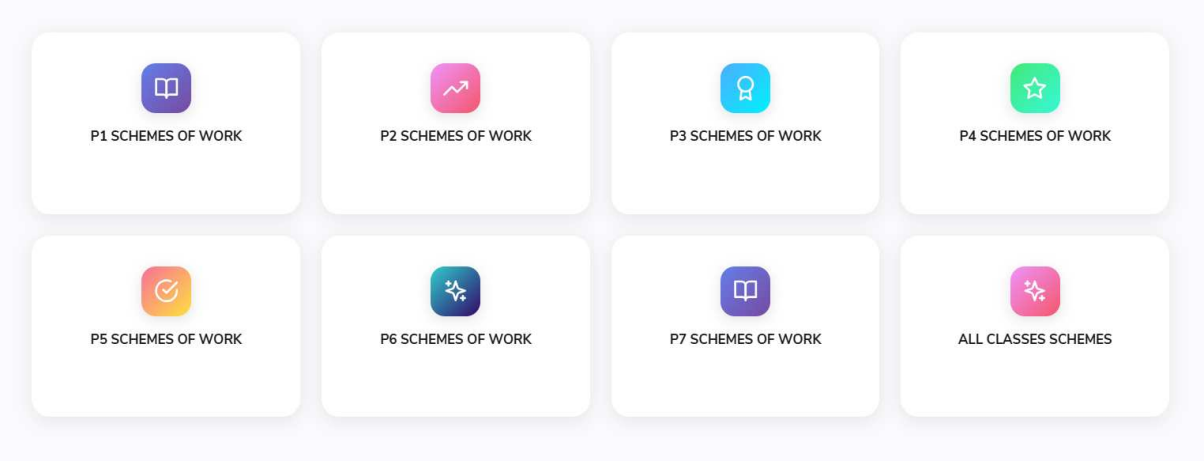
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