

2024
INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.

EMIS No.						Personal No.		

Candidate's Name

Candidate's Signature

EMIS No.

District Name

Read the following Instructions carefully:

1. This paper has two sections A and B. section A has 40 questions and section B has 15 questions.
2. Answer all questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked.
4. Unnecessary changes in your work may lead to loss of marks.
5. Any handwriting that cannot easily be read 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.

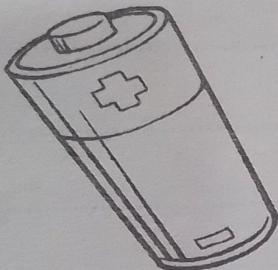
FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40 MARKS

Questions **1** to **40** carry **one** each.

1. Name the type of blood vessels with thicker walls.
2. Give **one** way in which terracing controls soil erosion.
3. Mention **one** way wind is important in management of harvested beans.
4. State **one** importance of imposing quarantine in cattle farming.
5. Mention the most preferred site where a clinical thermometer is put on the human body to take temperature.

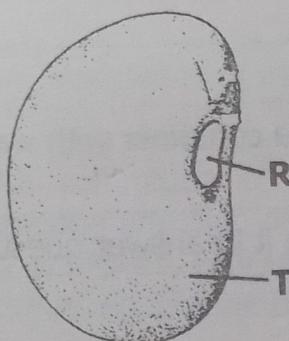
The diagram below shows an electric cell. Use it to answer questions **6** and **7**.



6. Identity **one** device in a home that uses the above electric cell.
7. Connect properly a wire and on it, indicate with an arrow the flow of current.
8. Give **one** use of lungs to the human body.
9. Write the first aid administered to a victim with a sprained ankle.
10. State any **one** way in which water in the soil is useful to plants.
11. Which chemical change damages metals by forming a brownish coating?
12. State any **one** way in which you can safeguard yourself against underdose of drugs when sick.
13. Give **one** way in which insulators are useful in our daily life.
14. Mention the step-in cleaning clothes that prevents dirty clothes from staining others.

15. State any **one** way tomato farmers manage sunny weather in their gardens.

The diagram below shows a bean seed. Study and use it to answer questions **17** and **18**.



16. Name part **T**.

17. Give **one** function of part **R** to the seed.

18. State how hookworms enter the human body.

19. Give **one** way in which cow dung is helpful in the conservation of the environment.

20. State what happens when a beam of light strikes a glass block.

21. Name the force which makes objects placed in water to weigh less than those in air.

22. Why are measles vaccines administered to babies at the age of nine months?

23. Write the collective name given to the female part of a flower.

24. State **one** way of caring for transplanted seedlings in the garden.

25. Give **one** way in which a school health committee can promote PIASCY in the community.

26. State **one** way in which a syringe is important to a doctor.

27. State any **one** way of increasing blood volume in the human body.

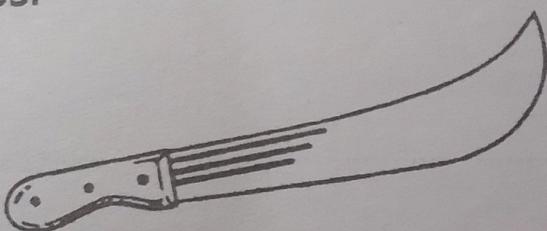
28. Give **one** way in which friction affects the efficiency of simple machines.

29. Mention any **one** external feature that can help you to identify a cock.

30. State the difference between breathing and respiration.

31. State what would be observed when you pour salt into a container with water and stir?

The diagram below shows a simple machine. Study and use it to answer questions **32** and **33**.



32. Give **one** use of the above simple machine to crop farmers.

33. Mention **one** way of improving the efficiency of the above simple machine.

34. Give **one** characteristic of hinge joints.

35. State any **one** way in which animal rearing is important to crops and trees in agroforestry.

36. Give **one** use of the liquid part of blood.

37. Write **one** plant that reproduces the same way as mushrooms.

38. State **one** reason why a breastfeeding mother should take plenty of water or fluids daily.

39. Outline **one** danger of buying essential drugs from local shops.

40. How does a whistle produce sound when used by a referee during a football match?

SECTION B: 60 MARKS

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

41.(a) Define the following terms.

(i) Drowning

(ii) Near drowning

(b) Give **one** first aid administered to a near drowning victim while still in water.

(c) What is the importance of mouth to mouth breathing to the near drowning victim?

42. The health committee of Bulisa district conducted a health survey about different common sicknesses affecting their population. The data collected indicated that most people suffered from **diabetes, HIV/AIDS** and **cough**.

(a) Which sickness should the district health committee attend to first?

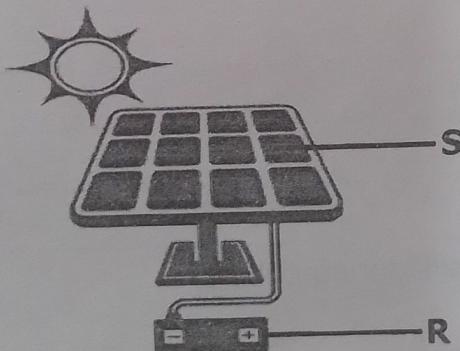
(b) Give a reason to support your answer in (a) above.

(c) What is the cause of diabetes in people?

(d) State any **two** ways of controlling the spread of the disease mentioned in (a).

- (i)
- (ii)

43. The diagrams below shows a device used to tap energy. Study and use it to answer questions that follow.



(a) Identify the device above.

(b) Give the function of part;

(i) **S**

(ii) **R**

(c) Give **one** advantage of the electricity produced above.

44.(a) List any **two** groups of warm-blooded vertebrates.

(i)

(ii)

(b) Write **one** characteristic common to all vertebrates.

(c) What enables a gecko to move along the ceiling without falling?

45.(a) What is the importance of digestion in the human body?

(b) Mention any **one** type of digestion.

(c) State any **two** ways you can care for your digestive system to ensure its proper functioning.

(i).....

(ii).....

46. Hearing is the process by which sound waves are detected and interpreted by the brain.
It involves the following steps which are arranged in a wrong order;

(a) The bones in the middle ear amplify the vibrations.

(b) The nerve signals are then sent to the brain for interpretation by auditory nerves.

(c) Sound waves are collected and directed into the ear canal.

(d) Vibrations from the middle ear reach the cochlea which converts them into nerve signals.

Rewrite the above sentences in their correct order to describe how hearing occurs in humans.

(i).....

(ii).....

(iii).....

(iv).....

47.(a) Identify any **one** body change in boys during puberty.

(b) State what happens when the sperm unites the ovum.

(c) Give the function of the;

(i) Epididymis:

(ii) Urethra:

48.(a) Define the term food preservation.

(b) Mention the method of preservation where slow burning fire is applied to preserve fish.

(c) Explain how refrigeration preserves fish for a long period of time. (02 Marks)

49.(a) Apart from breastfeeding, give **one** method of feeding babies.

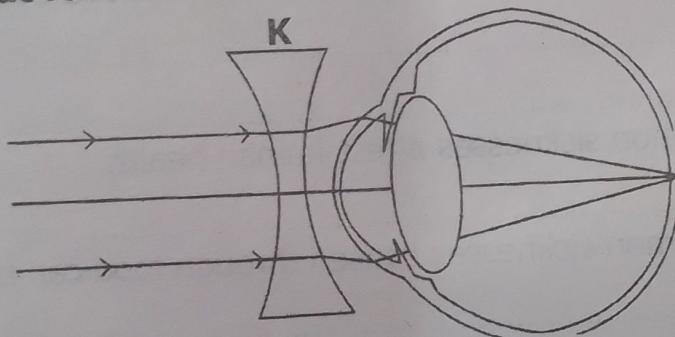
(b) Give any **two** factors considered before the mother breastfeeds the baby.

(i).....

(ii).....

(c) Name **one** example of food stuff given to weaning babies.

50.The diagram below shows a corrected eye defect. Study and use it to answer questions that follow.



(a) Identify the eye defect shown above.

(b) Give the role of lens **K** in the correction of the shown eye defect.

(c) Give **one** cause of the shown eye defect.

(d) Write **one** other type of eye defect that affects people.

51.(a) List **two** natural methods of vegetative propagation besides use of stem tubers.

(i).....

(ii).....

(b) State any **one** advantage of vegetative propagation.

(b) Give any **one** way in which beans and ferns different in terms of reproduction.

52.(a) Define the term transpiration.

(b) State **one** way in which transpiration is important in the water cycle.

(c) In which way is transpiration dangerous to plants?

53.(a) Name the resource in the environment from which charcoal is made.

(b) Give any **two** ways in which charcoal burning is dangerous to the environment.

(i).....

(ii).....
(c) State any **one** way people can reduce on the use of charcoal in your community.

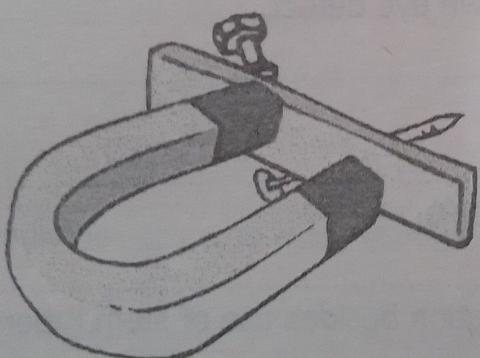
54.(a) Mention any **two** types of common sickness in a home caused by germs.

(i).....

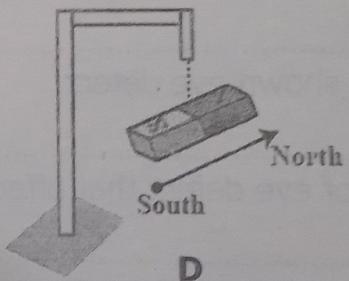
(ii).....
(b) Give **one** way in which common sicknesses affect human health.

(c) Write **one** way in which common sicknesses caused through food can be controlled.

55.The diagrams below show two properties of magnets. Study and use them to answer questions that follow.



A



D

(a) Identify the property of magnets labeled **A** and **D**.

(i) **A:** (ii) **D:**

(b) Give **one** way in which property **D** is useful to people.

(c) Mention the type of magnet used in **A**.