



ANKOLE DIOCESE EXAMINATIONS SECRETARIAT

PRE-PLE EXAMINATION
2024

INTEGRATED SCIENCE

TIME ALLOWED: 2 HOURS 15 MINUTES

INDEX NO:

EMIS NO					Personal No.		

Candidate's Name:

Signature:

School Name:

EMIS No.

Archdeaconry

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-pen or ink. Any work written in pencil other than graphs and diagrams will **not** be marked.
4. Unnecessary alteration of work may lead to **loss** of marks.
5. Any handwriting that cannot be easily read may lead to **loss** of marks.
6. **Do not** fill anything in the box indicated "**for Examiner's use only**" and those inside the question paper.

FOR EXAMINER'S USE ONLY		
QN NO.	MARK	Examiner's Sign
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

TURN OVER

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SECTION A: 40 MARKS

1. Name the form of energy that results from friction.

2. How can wood fuel be saved at home ?

3. Give any **one** importance of staking tomatoes.

4. Mention any **one** enzyme that acts on food in the ileum.

5. Mention any **one** non-chemical method of preparing water for drinking.

6. How is charcoal got from the environment ?

7. Use the diagram below to answer questions number 7 and 8.



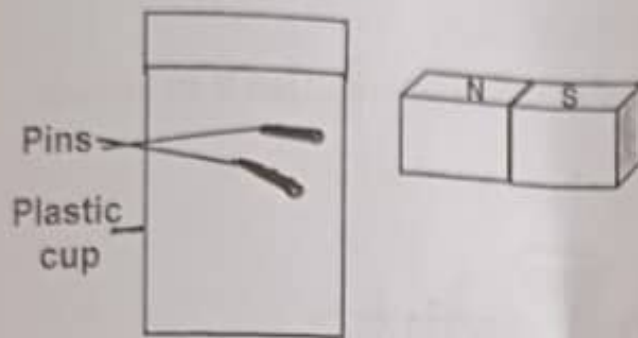
Name the structures marked A.

8. How are the structures marked A useful to the sports person who uses the shoe in no.(7) above ?

9. Mention any **one** energy change that takes place in an electric bulb when the circuit is complete.

10. Give the function of the micropyle to a seed.

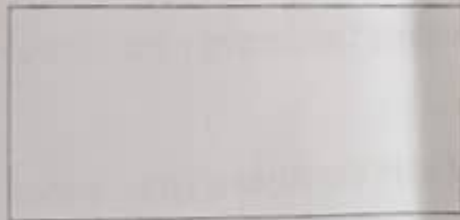
The diagram below shows one of the properties of magnetism. study it and use it to answer question 11.



11. Identify the property of magnetism illustrated above.

12. How do school sweaters keep the body of pupils warm ?

13. In the space provided below, draw the eggs of a toad.



14. Mention any **one** activity that can prevent mosquitoes from breeding near our homes.

Turn over

15. Why does a doctor shake a clinical thermometer before using it on another patient ?

.....
.....

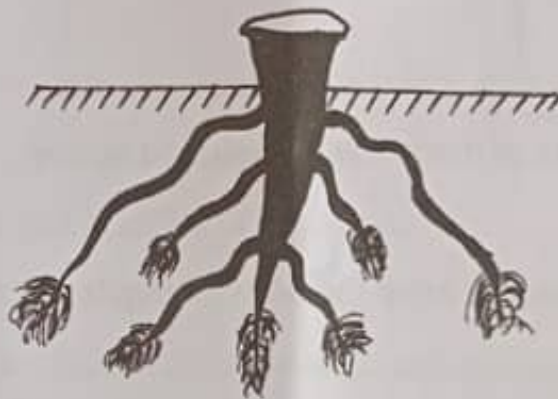
16. State **one** first aid for near drowning.

.....

17. Identify the part of the flower that produces male reproductive cells.

.....

The diagram below shows a type of root system. Use it to answer questions 18 and 19.



18. What type of germination results into the above kind of root system ?

.....

19. Mention **one** example of a plant with the above type of root system.

.....

20. Why does a balloon filled with air burst when exposed to sunshine ?

.....

.....

21. Give **one** reason why people urinate more frequently during cold weather than hot weather.

.....

.....

22. Name the sexually transmitted disease that cause madness at a later stage.

.....

23. Why are people in rural areas encouraged to cook using solar cookers ?

.....

.....

24. Give **one** way in which wind is an important energy resource in the environment.

.....

25. How are sea mammals able to keep warm in cold water ?

.....

26. Give **one** reason why a drone bee dies soon after mating with the queen bee.

.....

27. Identify any **one** organ of the body protected by the vertebral column.

.....

The diagram below is of a foot of a type of bird. Use it to answer question 28.



Turn over

28. To which group of birds does a bird with such a foot belong ?

.....

29. How are animals different from plants in the way they get food ?

.....

.....

30. Why is the left ventricle of the heart thicker than the right ventricle ?

.....

.....

31. A part from Merino sheep, name any other example of sheep reared for wool production.

.....

.....

32. Give an example of simple machine in the third class levers.

.....

33. Which gas is destructive to metallic materials ?

.....

34. Why is it advisable to keep the hole of a VIP latrine open all the time ?

.....

.....

35. State the element of weather that makes use of a rain gauge.

.....

36. Give one structural difference between a seed and a fruit.

.....

37. Name any **one** biological change that occurs in the oviduct of a female human being.

38. How do trees help to purify air ?

39. Weathering is one of the processes by which soil is formed. Mention one factor that increases the rate of weathering.

40. Give **one** cause of deformation of bones in human beings.



SECTION B: 60 MARKS.

41.a) Mention one example of each of the following crops:-

i) Perennial crops :

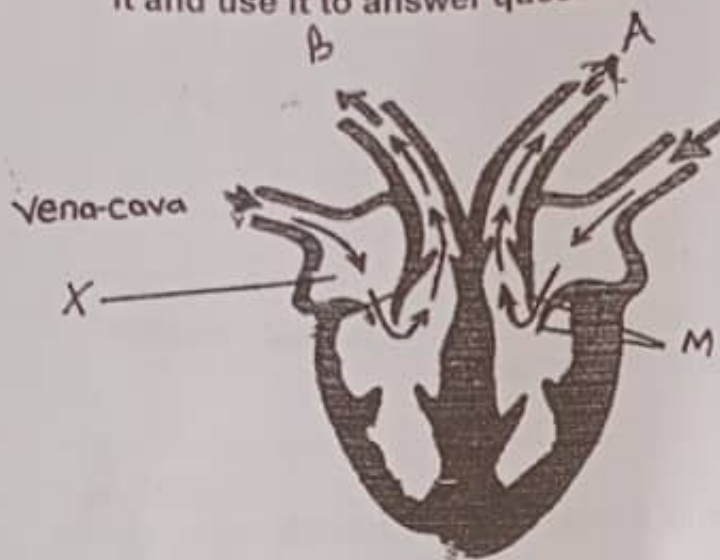
ii) Annual crops :

b) Mention any one sign of pest damage on perennial crops.

c) How does crop rotation help in the control of pests in the garden ?

Turn over

42. The diagram below shows the structure of the human heart. Study it and use it to answer questions that follow.



a) Name the blood vessels marked;

i) A:

ii) B:

b) Give the function of the structures marked M

.....

c) Which type of blood is passes through the chamber marked X ?

.....

43.a) Mention any **two** early signs of pregnancy.

i)

ii)

b) Give two basic requirements of a pregnant woman.

i)

ii)

44. Below is a list of human activities carried out by people in the environment.

- i) Mining
- ii) Monocropping
- iii) Release of smoke from factories
- iv) Planting trees
- v) Draining swamps
- vi) Treating industrial wastes

a) Which activity is likely to cause soil infertility ?

.....

b) Identify the activity from the above list that causes global warming.

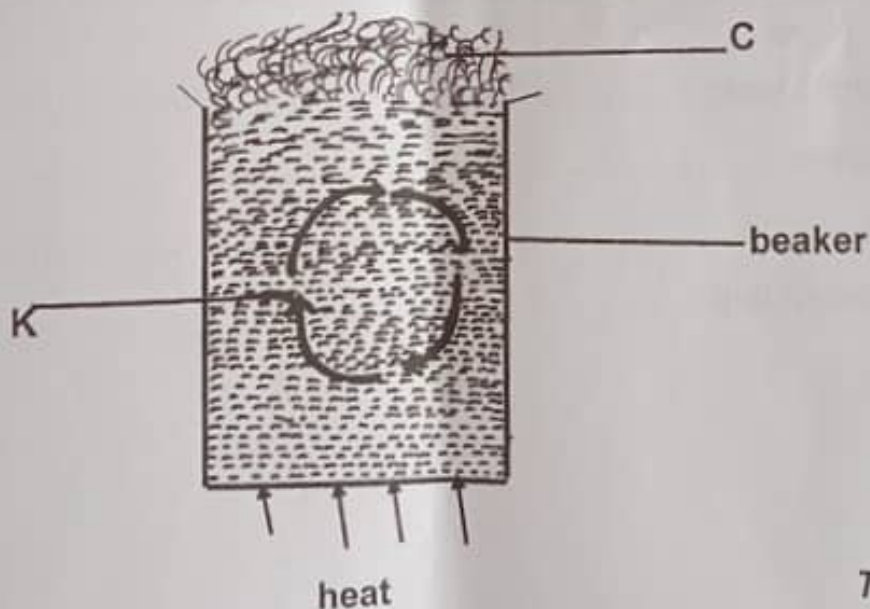
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c) From the list, write **two** conservation practices.

i)

ii)

45. The diagram below shows an experiment carried out by Primary five pupils. Study it and use it to answer the questions that follow.



Turn over

a) What scientific name is given to the movement of water molecules marked K ?

b) How does heat pass through the beaker to reach the molecules of water at the bottom ?

c) What process forms the substance marked with letter C ?

d) What type of energy is possessed by the above boiling water ?

46. The table below shows parts of different types of latrines and their uses. Match them correctly in the spaces provided.

A	B
Part	Use
i) Septic tank	Stores water for flushing the toilet
ii) Screen	Takes out a bad smell
iii) Vent pipe	For depositing faeces and urine
iv) Cistern tank	Traps and kills houseflies

i) Septic tank:

ii) Screen:

iii) Vent pipe:

iv) Cistern tank:



47.a) Give any **two** artificial methods of vegetative propagation.

i)

ii)

b) Mention any **two** advantages of vegetative propagation.

i)

ii)

48.a) Give **two** examples of laboratory made essential drugs.

i)

ii)

b) State **two** qualities of essential drugs.

i)

ii)

49.a) Mention **one** difference between mass and volume.

.....

.....

b) Give the units for measuring mass and volume.

i) Mass:

ii) Weight:

c) Why is the pen called matter ?

.....

.....

Turn over



50. a) Give an example of each of the following:-

i) Wedges:

ii) Inclined planes:

b) Mention **two** ways in which pulleys are useful in our daily life.

i)

ii)

51. a) Write down **two** organs of the body found in the rib cage.

i)

ii)

b) Give any **two** functions of the brain.

i)

ii)

52. a) Give any **two** examples of organisms that feed parasitically in animals bodies.

i)

ii)

b) Mention any **two** control measures of tickborne diseases in both goats and cattle.

i)

ii)

53. a) Name **one** childhood immunizable disease whose vaccine is administered to the child at birth.

.....

b) State any **two** groups of germs.

i)

ii)

- c) Mention **one** way how the spread of germs can be controlled in the environment.

.....

- 54.a) Give the importance of the following items when giving first aid to the casualty.



- i) Razor blade:.....
ii) Splints:

- b) State any **two** reasons for giving first aid.

- i)
ii)

- 55.a) Mention the meaning of the following terms applied in light.

- i) Beam:.....
ii) Reflection:

- b) Why does a pencil dipped in clear water appear broken ?

.....
.....

- d) Which organ of the body uses sunlight energy to manufacture vitamin **D** ?

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END