



AMURIA DISTRICT ACADEMIC PERFORMANCE IMPROVEMENT COMMITTEE.



DISTRICT PLE - MOCK 2024

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Random No.					Personal Number		

CANDIDATE'S NAME

CANDIDATE'S SIGNATURE:

SCHOOL NAME:

DON'T OPEN THIS BOOKLET UNTIL YOU ARE TOLD DO SO

Read the following instructions carefully

1. This paper has two sections A and B.
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. The use of electronic calculators and mathematical tables is not allowed
9. Do **not** fill anything in the boxes indicated; "**For Examiner's use only**".

EXAMINER'S USE ONLY		
QNS	MARKS	INITIALS
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A (40 MARKS)

1. State the type of soil suitable for crop growing.

2. Which sense organ is responsible for the pain in the body part pricked by the thorn?

3. Write down the class of cold blooded vertebrates that undergoes external fertilization.

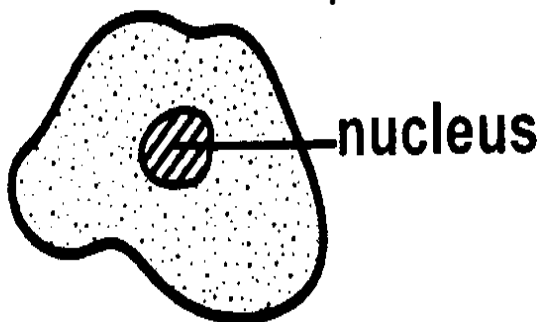
4. How can Okiria control mosquitoes at larva stage?

5. Identify any one example of an egg laying mammal.

6. Why do rural farmers prefer rearing local breeds of cattle than exotic breeds?

7. Give one way in which the use of solar energy is good to our environment.

Use the diagram below to answer question 8 that follow.



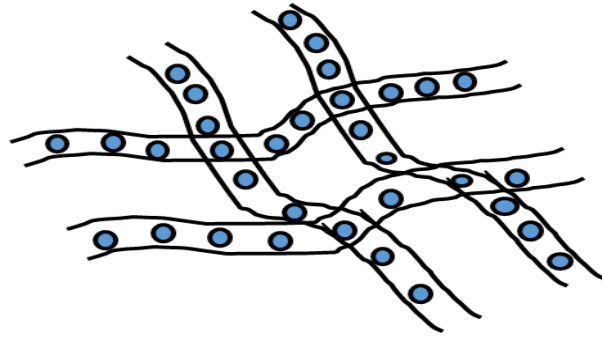
8. Give the importance of the blood cell shown.

9. How does friction affect the efficiency of a machine?

10. Write down the importance of saliva during food digestion.

11. Name the vector that spreads river blindness.

The diagram below shows the eggs of an amphibian. Use it to answer question below.



12. Name the amphibian which lays such eggs.
-
13. State any one secondary sex characteristic common in both girls and boys.
-
14. Give any one effect of heat to matter.
-
15. State any one viral disease in livestock.
-
16. How is the fuse adapted to its function?
-
17. Write down the best example of a tap root tuber.
-

Study the diagram and use to answer question 18



18. To _____ the tool belong?
-
19. Give any one example of a scavenger bird.
-
20. Why is it necessary to put litter on the floor of their poultry house?
-

21. Give the place at which heat travels by radiation.

22. State any one condition that favours multiplication of bacteria.

Study the diagram below and use it to answer the question that follows



23. Why do farmers carry out the practice shown in the diagram above?

24. Name the part of the human ear responsible for changing sound vibrations to impulses.

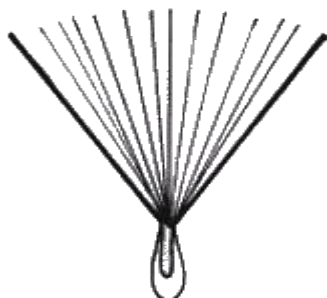
25. Give any one example of a long bone in the human skeleton.

26. Name any one example of a natural magnet.

27. State the danger of smoking tobacco o an expectant mother.

28. Mention any one cause of antisocial behavior among young people in our societies.

Study the diagram below and use it to answer question 29.



29. How is it adapted to its mode of dispersal?

30. Why is distilled water not recommended for drinking?

31. State any one reason why animals considered as energy resources.

32. Why are sheep farmers advised to carryout shearing during dry season?

33. Give one way of promoting oral health.

34. In which way does the use of soap help in the care of the human skin?

35. What is near drowning?

36. Write down any one use of leaves to a plant.

37. Why is it difficult to control diseases in free range system?

38. State the group of invertebrates with soft unsegmented bodies.

39. In which way is the sebaceous gland useful in an organism?

40. Why does malaria commonly affect people during flowering stage of maize?

SECTION B (60 MARKS)

41. a) State any two examples of nonflowering plants

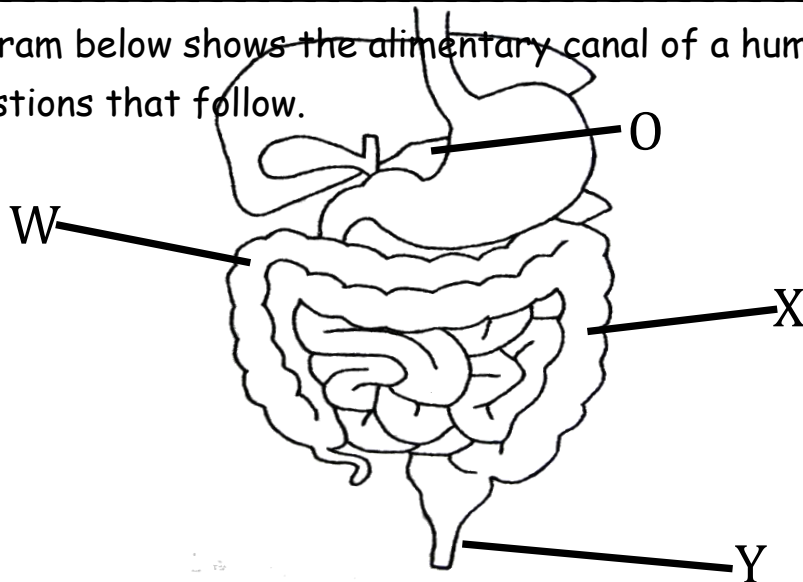
i) _____

ii) _____

b) How do nonflowering plant reproduce?

c) Write down one economic value of coniferous plants.

42. The diagram below shows the alimentary canal of a human being. Use it to answer questions that follow.



a) Name the parts marked

i) O

ii) W

b) State any one process that takes place in the part labelled Y.

c) Identify any one disorder of the system above.

43. a) State any one way of storing sound.

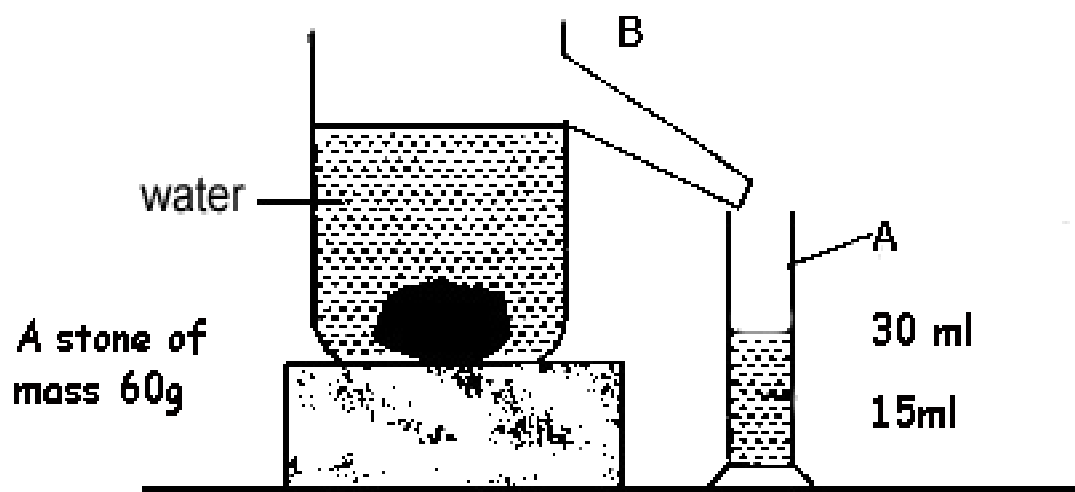
b) How can one vary the pitch of his/her harp string?

c) Give two factors that determine volume.

i. _____

ii. _____

44. Study the diagram below of find volume carefully and use it to answer questions that follow.



a) When is the above method used?

b) State the name given to the above method of finding volumes.

c) Calculate the density of the stone in the process (2Mrks)

45. a) State any two reasons why it is necessary to promote personal hygiene.

- i) _____

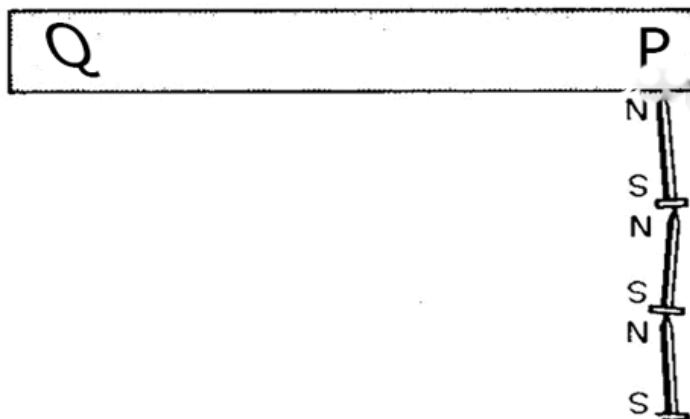
ii) _____

b) Give any two activities used to promote ones hygiene.

- i) _____

ii) _____

46. The diagram below is of a method of magnetization use it to answer the questions that follow.



a) State the method of making a magnet above.

b) Identify the pole marked Q.

c) Write two ways a magnet can get demagnetized.

- i) _____

ii) _____

47. a) What is an energy resource?

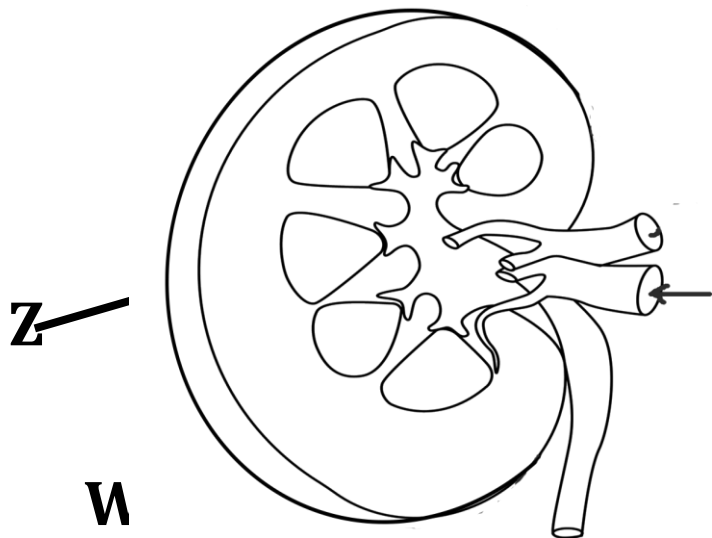
b) State any two examples of non-renewable energy resources

i) _____

ii) _____

c) How can non-renewable resources be conserved?

48. The diagram below is of a cross section of the kidney. Study it carefully and use to answer questions that follow.



a) i) Name the part marked Z

ii) State what happens to blood at W?

b) Give two functions of the kidney similar to a skin.

i) _____

ii) _____

49. a) State disadvantages of artificial insemination.

i) _____

ii) _____

b) Give the type of cattle kept for milk production.

c) Why is it necessary to dip cattle regularly?

50. a) What is first aid?

b) How is a stretcher useful in the process of giving first aid?

c) Give a reason for.

i) Laying a casualty with legs higher than the head.

ii) Pinch the soft part of the nose.

51. Fill the missing information in the table.

Type of air	Composition %	Importance
Oxygen	i) _____ _____	Supports burning
ii) _____	78%	Make plant nutrients

Carbon dioxide	iii) _____ _____	iv) _____
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52. Below is a list of animals in a particular habitat. Use it to answer questions that follow.

Rat, bacteria, Ground nuts, cat.

a) i) Arrange the given living things to form a correct food chain.

b) State the science name given to.

i) Ground nuts

ii) Bacteria

c) Where do the animals get the energy transfer across the chain?

53. a) State the part of a thermos flask that control heat loss by.

i) Radiation

ii) Conduction

b) Give two reasons why thermos flask is not commonly used in homes and yet is do helpful.

i) _____

ii) _____

54. a) Identify the type of tooth used for tearing hard food.

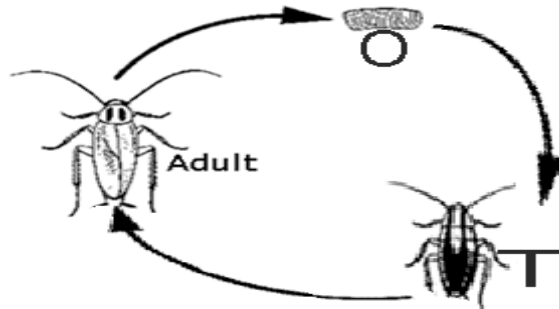
b) How is it adapted to its function?

c) State two diseases of the teeth.

i) _____

ii) _____

55. Below is a diagram showing the life cycle of an insect. Study it carefully and use it to answer the following questions.



a) Name the type of life cycle shown above.

b) Write the stage marked T

c) State two examples of insects that undergo such a life cycle.

i) _____

ii) _____

END

