

KOLFRAM EDUCATIONAL SERVICES KAMPALA



PRE -NATIONAL MOCK EXAMINATION 2024

SET ONE

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index Number:

Random Number						Personal Number		

Candidate's Name:

Candidate's Signature:

School Name:

District Name:

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. This paper has **two** sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **12** printed pages.
2. Answer **all** questions. **All** answers to both sections A and B must be shown in the spaces provided.
3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will **not** be marked.
4. No calculators or **electronic** pens are allowed in the examination room.
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 EXAMINER'S USE ONLY

QN. NO.	MARKS	EX'ER'S INITIAL
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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Trust Kolfram Educational Services for quality workbooks, companion books, PLE revision workbooks, PLE question Banks, Topical workbooks, Quality Assessments and Holiday packages

SECTION A: 40 MARKS

(Questions 1 to 40 carry one mark each)

1. Name **one** part of a plant used as herbal medicines.

.....

2. State any **one** reason why animals move from one place to another.

.....

3. How is a snake useful to human beings?

.....

4. How are insulators important in the control of burns and scalds?

.....

5. State any **one** way in which rats help to control food insecurity at home.

.....

6. Give any **one** characteristic of enzymes.

.....

Below is a diagram of a garden tool. Use it to answer question 6.



7. How important is the garden tool above during transplanting of tomatoes?

.....

8. Give any **one** environmental problem of preserving food by smoking method.

.....

9. Mention any **one** state of matter in which poison exist.

.....

10. State any **one** cause of nose bleeding.

.....

11. What is the importance of a forked tongue to a snake?

.....

12. How do the lizards help in the prevention of malaria in a home?

.....

13. Name the body part mostly affected by typhoid.

.....

14. Name the process by which food passed through the gullet.

.....

15. Name the example of permanent magnet shown below.



.....

16. Give **one** way gills in a fish are similar to the moist skin on a frog.

.....

17. State any **one** sign of a poor sanitation at school.

.....

18. State **one** method of deworming livestock.

.....

19. Why should food be mixed with saliva in the mouth?

.....

20. Name the part of the flowering plant shown below.



.....

21. State any **one** reason why most solar panels are painted in black colour.

.....

22. What system is responsible for the movement of blood around the body?

.....

23. State any **one** result of using old wires for carrying current from one place to another.

.....

24. State the importance of mammary glands to mammals.

.....

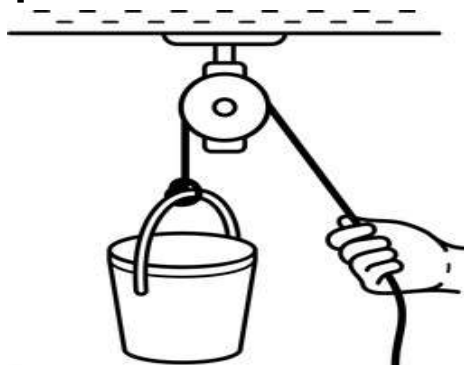
25. State any **one** component of humus.

.....

26. State the organism that can be controlled by the use of antibiotics.

.....

Study the diagram of a pulley below and use it to answer the questions that follow.



27. Name the type of pulley shown below.

.....

28. State any **one** reason why blood does not flow backward in the heart.

.....

29. How does smearing of the floor and sweeping prevent jiggers?

.....

30. Name the shape which has all the sides equal.

.....

31. Which type of electricity is produced by dry cells?

.....

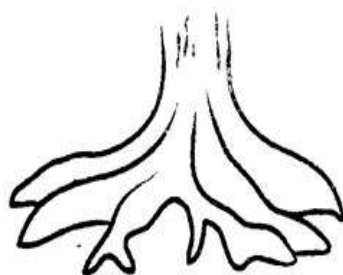
32. State any **one** disease which affects bees in the hives.

.....

33. State the main reason why mechanical advantage has no specific unit of measurement.

.....

Below is a diagram of a buttress root. Use it to answer the questions that follow.



34. Name the type of root shown above.

.....

35. How is the root structure above important to the plant?

.....

36. What process makes dew, mist and fog to form during the night?

.....

37. Name the respiratory disease caused by Bordetella Pertussis

.....

38. In which type of leaf venation do the vein runs parallel to each other?

.....

39. Give a reason why sound does not travel in a vacuum.

.....

40. State **one** intestinal worm that enters the body through the skin.

.....

SECTION B

41. The diagram below shows a bottle thrown in water. Use it to answer questions that follow.



(a) Why do you think the bottle float on top of water as shown above?

.....

.....

(b) Mention any **two** other objects which float when put in water.

.....
.....

(c) Name any **one** force which acts on floating objects.

.....
.....

42. (a) Apart from the skin and lungs, give one other body organ.

.....
.....

(b) List any **two** diseases that affect the skin.

(i)

(ii)

(c) Give **one** way of caring for the skin.

.....
.....

43. (a) Suggest any **two** reasons why farmers rotate their crops.

(i)

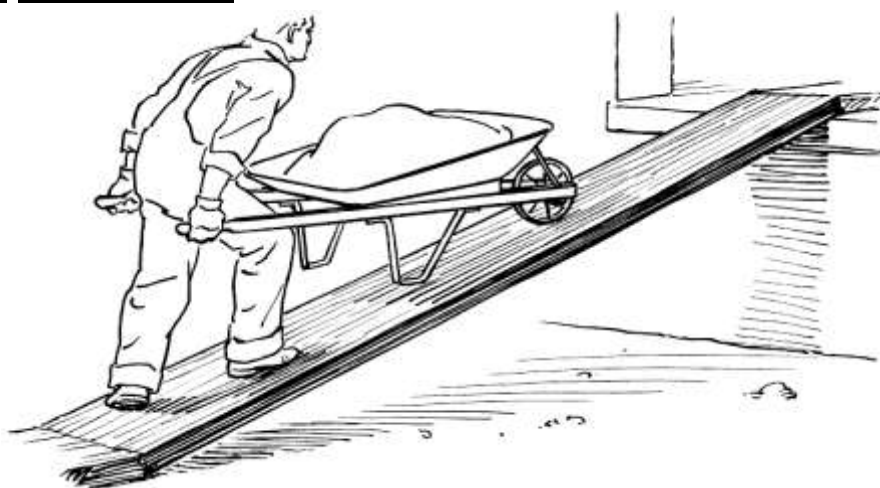
(ii)

(b) Give any **two** ways how farmers maintain soil fertility.

(i)

(ii)

44. **The diagram below is of a simple machine. Use it to answer the questions that follow.**



(a) Name the simple machine shown above

.....
.....

(b) How does the simple machine above simplify work?

.....
.....

(c) In which way is the inclined plane important to the builders?

.....
.....

(d) State any **one** reason why the efficiency of a machine is always less than 100%.

.....
.....

45. (a) What is blood pressure?

.....
.....

(b) Name **one** component of the solid part of blood.

.....
.....

(c) Give **two** uses of blood to vertebrate animals.

(i)

(ii)

46. **The table below shows weather instruments. Match the items in A with those in B.**

List A	List B
Wind sock	atmospheric pressure
Minimum & Maximum thermometer	speed of wind
Barometer	strength of wind
Anemometer	Lowest and highest temperatures for the day.

(a) Wind sock:

(b) Minimum and maximum thermometer:

(c) Barometer:

(d) Anemometer:

47. (a) State any **one** organ of the respiratory system.

.....
.....

(b) What cause hiccups?

.....
.....

(c) State any **two** ways of caring for the respiratory system.

(i)

(ii)

48. (a) Write **one** word to mean instruments that produce sound by hitting.

.....

.....

Below is a diagram of a musical instrument. Use it to answer the questions that follow.



(a) Name the musical instrument shown above.

.....

(b) State any **two** materials used for making the instrument shown above.

(i)

(ii)

49. (a) Where does gaseous exchange take place in the human lungs?

.....

.....

(b) Why is the trachea made of rings of cartilage?

.....

.....

(c) How is food prevented from entering the lungs during swallowing?

.....

.....

(d) Give any **one** property of air that we breathe out.

.....

50. (a) What is the best time of the day for harvesting honey?

.....

(b) State **two** factors to be considered when harvesting honey.

(i)

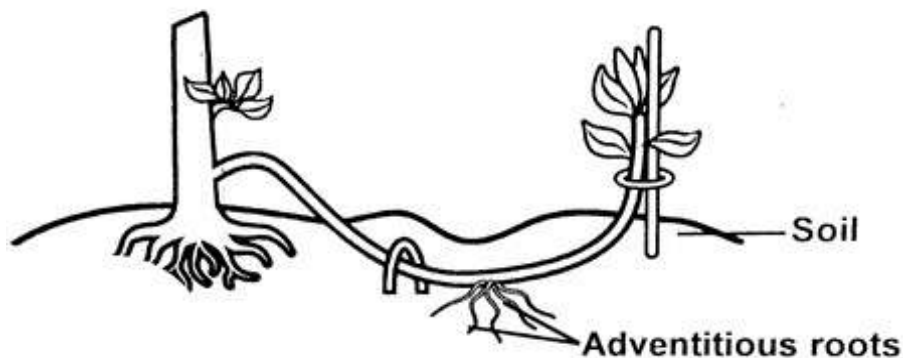
(ii)

(c) Mention any **two** equipment for harvesting honey

(i)

(ii)

51. Below is a diagram illustrating artificial vegetative propagation. Use it to answer questions that follow.



(a) Name the form of artificial vegetative propagation shown below.

.....

(b) Mention any **one** crop propagated using the method shown above.

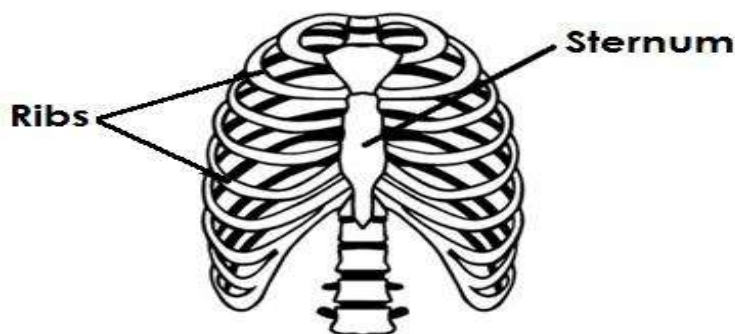
.....

(c) State any **two** reasons why many people do not use the method above.

(i)

(ii)

52. Below is a diagram of a type of a bone. Use it to answer the questions that follow.



(a) Name the type of bone shown above.

.....

(b) State **two** delicate body organs protected by the structure shown above.

(i)

(ii)

(c) Mention any **one** substance found in the bones.

.....

53. (a) List any **two** qualities of a good house for cattle

(i)

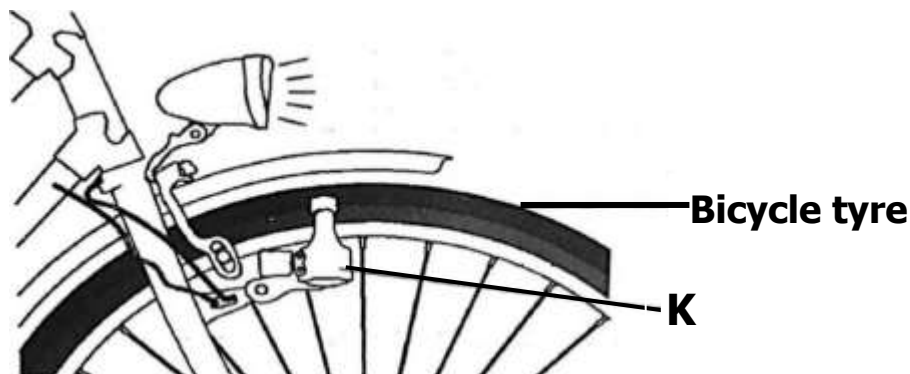
(ii)

(b) State any **two** reasons for housing cattle.

(i)

(ii)

54. The diagram below shows equipment on a bicycle that is used to produce electricity. Study and use it to answer the questions that follow.



(a) Name the equipment marked with letter K.

.....
.....

(b) Give the function of the bicycle tyre in producing the electricity.

.....
.....

(c) State the energy change that takes place in equipment labeled **K** when it is in use.

.....
.....

(d) State **one** factor that determine the output of a bicycle dynamo.

.....
.....

55. (a) Name the type of germination common in cereal crops.

.....

(b) State any **two** conditions needed for seeds to grow into seedlings

(i)

(ii)

(c) Give **one** reason why bean seed may fails to germinate under favorable condition.

.....
.....

Game Over