

# KOLFRAM EDUCATIONAL SERVICES KAMPALA



PRE NATIONAL MOCK EXAMINATION 2024

SET SIX (BLUE PRINT)  
INTEGRATED SCIENCE



Time allowed: 2 hours 15 minutes

Index Number:

Random Number						Personal Number		

Candidate's Name: .....

Candidate's Signature: .....

School ID: .....

District ID: .....

**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 **14** 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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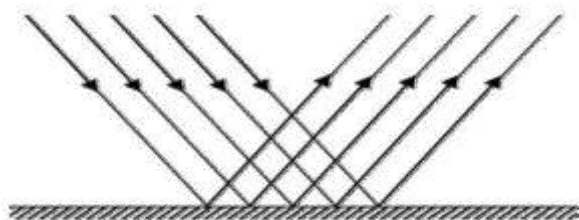
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## SECTION A: 40 MARKS

(Question 1 to 40 carries **one** mark each)

1. Name the main natural source of heat and light in the environment.  
.....
2. Apart from exotic breed, mention any **one** other similarity between Saanen goats and Toggenburg goats.  
.....
3. Give any **one** reason for carrying out bush fallowing.  
.....
4. What name is given to the substances which can directly change from solid to gas?  
.....
5. State any **one** effect of pests attacks on crops in the garden.  
.....
6. Give any **one** part of a well made farm budget.  
.....
7. Why is it recommended to feed the babies on breast milk for at least two years before weaning them?  
.....  
.....
8. Why is water not used to put off fire caused by petrol?  
.....
9. Give any **one** characteristic of machines under third class lever.  
.....
10. Name the method used in staking bananas with heavy bunches  
.....
11. Which digestive disorder is likely to affect the elderly?  
.....

**Use the diagram below to answer the question 12.**



12. Name the type of refraction shown above.  
.....
13. State any **one** condition under which breastfeeding is restricted.  
.....

14. Give any **one** reason why clay soil is not good for crop growing.

.....

15. Why is freezing referred to as exothermic process?

.....

16. State any **one** difference between ball and socket joints and hinge joints.

.....

17. How is a caustic stick important during the process of dehorning?

.....

18. Give any **one** way of harvesting meat from animals.

.....

19. How are plants used as resources?

.....

**Use the diagrams of the garden tools below to answer the question that follow.**



20. How is the garden tool illustrated above useful?

.....

21. Give any **one** characteristic of beef cattle.

.....

22. Give any **one** importance of alloys

.....

23. State any **one** property of friction.

.....

24. Give any **one** reason why some fertilized eggs fail to hatch even in the presence of favourable conditions

.....

25. State any **one** way in which a P7 child can prevent against dangers caused by lightning.

.....

26. State any **one** reason for carrying out castration in cattle.

.....

27. Write down any **one** property of light

.....

28. Which type of farm record shows yields of various farm produces?

.....

29. In which way can salt helps to preserve meat?

.....

30. Mention any **one** importance of seed dispersal to the plants.

.....

31. Give any **one** common sign and symptom of malnutrition in adults.

.....

32. Mention **one** component of soil which supports germination of bean seeds.

.....

33. State the law of energy.

.....

34. Give any **one** biological method of controlling weeds.

.....

35. Write down any **one** role of an individual in promoting Primary Health Care

.....

.....

36. Name the part of a cock that helps to regulate its body temperature.

.....

37. Give any **one** way of improving the efficiency of a machine.

.....

38. Give any **one** waste product excreted by the kidney.

.....

39. What is dislocation?

.....

.....

40. State any **one** method of heat transfer in matter.

.....

### Section B

*(Question 41 to 55 carries 4 marks each)*

41. (a) What is seed dormancy?

.....

.....

(b) State any **one** type of seed dormancy.

.....

(c) Give any **two** conditions that cause seed dormancy

(i) .....

(ii) .....

**42. Match these items in list A to those in list B.**

Air pollution	too much noise in an area
Water pollution	toxic substances are released into the land
Land pollution	toxic substances are released into the water
Sound pollution	toxic substances are released into the air

- (a) Air pollution.....
- (b) Water pollution.....
- (c) Land pollution.....
- (d) Sound pollution.....

**43. (a) State any one main product got from the following breeds of goats;**

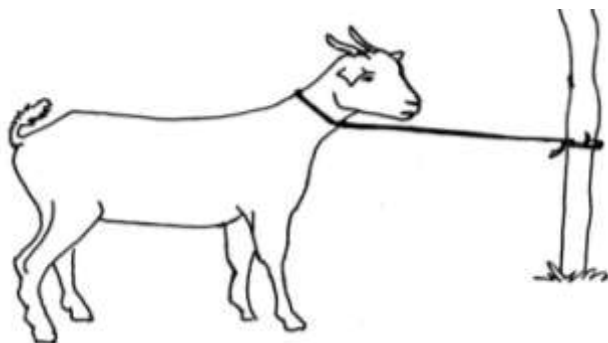
- (i) Angora goats: .....
- (ii) Toggenburg: .....
- (b) Mention any **two** characteristic of a good milk goat breeds
- (i) .....
- (ii) .....
- (c) Give any **one** problem faced by goat breeders in Uganda.
- .....
- .....

**44. Use the diagram below to answer questions that follow.**



- a) What was the experiment about?
- .....
- .....
- b) Why is the boy unable to see the light from the candle using the pipe?
- .....
- .....
- c) What should the boy do in order to see the light from the candle?
- .....
- .....
- d) Give any **one** application of light in our daily life.
- .....
- .....

**45. Use the diagrams of the garden tools below to answer the questions that follow**



(a) Name the method of grazing goats illustrated above.

.....

(b) Mention any one requirement for practicing the method illustrated above.

.....

(c) Give any **one** reason why most goat farmers prefer using the method of grazing goats illustrated above.

.....

(d) State any **one** problem faced by farmers using the method named in (a) above.

.....

46. (a) State any **one** reason why bottle milk does not contain antibodies.

.....

(b) Why do the breast feeding babies take in more breast milk than bottle milk?

.....

(c) State any **one** advantage of bottle feeding to the babies.

.....

(d) Give any **one** disadvantage of bottle feeding.

.....

47. (a) State any **two** common practices that reduce the speed of running water from carrying out soil erosion.

(i) .....

(ii) .....

(b) State any **two** effects of soil erosion to the environment.

(i) .....

(ii) .....

48. (a) State any **one** consequence of alcoholism to an Individual P7 candidate.

.....  
.....

(b) Give any **two** effects of alcoholism to the family

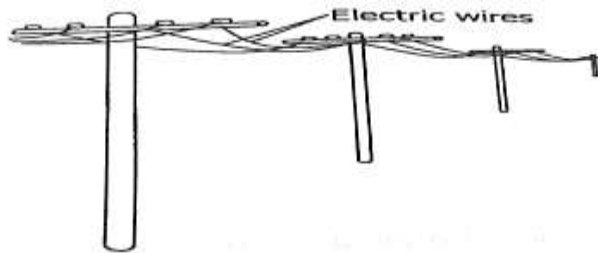
(i) .....

(ii) .....

(c) Mention any **one** impact of alcoholism to the community

.....

49. **The diagram below shows electric wires under a certain weather condition. Study it and answer questions below.**



(a) In which kind of weather condition do the electric wires appear loose as shown above?

.....

(b) What would happen to the wires when tied tightly fixed on the poles?

.....

(c) Why are gaps left between electric wires during construction?

.....

(d) Why is space left while bottling drinks like soda?

.....

.....

50. (a) Define the term artificial insemination.

.....

.....

(b) Give any **two** advantages of artificial insemination

(i) .....

(ii) .....

(c) Mention any **one** disadvantage of artificial insemination

.....

51. (a) How is an echo formed?

.....

(b) State any **one** way in which echo is important to each of these categories:

(i) Blind people:

.....

(ii) Bats

.....

(c) Give any **one** example of good absorbers of sound

52. (a) What is food insecurity?

(b) State any **two** causes of food insecurity in our community.

(i)

(ii)

(c) Give any **one** solution to the food insecurity stated above.

53. The diagram below is a hoisting flag. Use it to answer the questions that follow.



(a) Name the force that helps to raise up and lower down the flag.

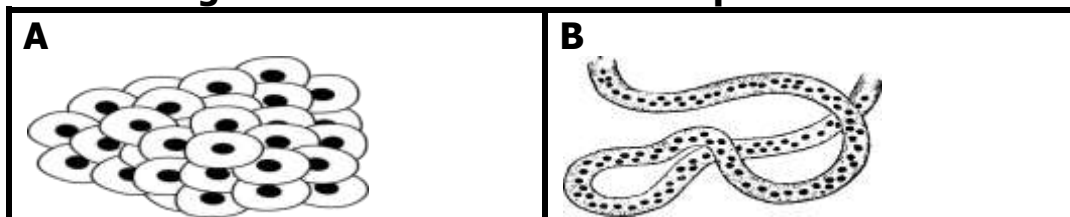
(b) How is the pulley important to the in raising and lowering of the flag?

(c) Mention any **two** applications of pulleys in our daily life

(i)

(ii)

54. Use the diagrams below to answer the questions that follow.



(a) Name the animal which lays the eggs marked with letters **A** and **B**.

(i) A:

(ii) B:

(b) Give any **two** adaptations of a frog to living in water.

(i)

(ii)

55. (a) Give any **two** adaptations of flowers to self pollination

(i)

(ii)

(b) Give any **two** characteristics of self- pollinated flowers.

(i)

(ii)