

# KIRUHURA DISTRICT PRIMARY SCHOOLS



## HEADTEACHERS' ASSOCIATION

MOCK EXAMINATIONS, 2023



### INTEGRATED SCIENCE

TIME ALLOWED: 2H RS 15 MINUTES

INDEX NO.

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CANDIDATE'S NAME: \_\_\_\_\_

CANDIDATE'S SIGNATURE: \_\_\_\_\_

SCHOOL NAME: \_\_\_\_\_

SUB-COUNTY: \_\_\_\_\_

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO 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 in Section **A** and Section **B**. Answers must be written in the spaces provided.

5. All answers must be written using a blue or black ball-point pen or ink. Only diagrams may be done in pencil.

Unnecessary alteration of work may lead to loss of marks.

Any handwriting that cannot easily be read may lead to loss of marks.

#### FOR EXAMINERS' USE ONLY

QN. NO.	MARKS	INITIALS
1 - 14		
15 - 27		
28 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

## SECTION A (40 MARKS)

1. Name the gas used in fire extinguishers.  
.....  
.....
2. Which germ attacks the red blood cells in the body?  
.....  
.....
3. Name the force which man over comes on lifting a sack of beans from the ground up wards.  
.....  
.....
4. State one characteristic of incisor teeth which makes them suitable for their function.  
.....  
.....
5. Why is a fuse made of a thin wire?  
.....  
.....
6. State any one physical change that takes place during the process of distillation of alcohol.  
.....  
.....
7. Apart from polio vaccine, name any other vaccine administered to babies at 6 weeks of age.  
.....  
.....

The diagram below is of a head of a bird. Use it to answer question 8





8. What does the bird with this type of beak feed on?
- .....
- .....
9. Why is the amount of sugar is more than that of salt when preparing oral Rehydration Solution (ORS) for a dehydrated person.
- .....
- .....
10. Name the force which makes a pencil grip to stick on a piece of paper when in a science lesson.
- .....
- .....
11. State the reason why an irish potato is grouped under stem tubers.
- .....
- .....
12. What type of farming should a farmer use in order to harvest both crops and wood?
- .....
- .....
13. Name one way in which goats benefit from plants.
- .....
- .....
14. Suggest one way of conserving non renewable energy resources in the environment.
- .....
- .....
15. To which group of simple machines does a ladder leaning against the wall belong?
- .....
- .....
16. Identify the type of fuel obtained when wood is burnt in limited supply of oxygen.
- .....
- .....

17. State one way how the testis is similar to anther heads in a flowers.

18. Give any one mineral deficiency disease in humans.

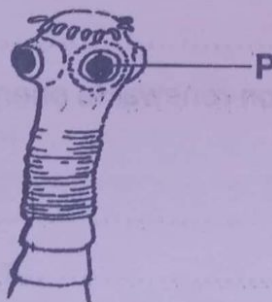
19. Name the cattle disease whose sign is swollen and painful udder.

20. Which structure enable the trachea to be kept open all the time?

21. Give one way in which the spread of scabies can be controlled.

22. How does heat from the sun reach the ground?

The diagram below is a head of a tape worm. Use it to answer question 23 and 24.



23. Give the importance of part marked P on a tapeworm above.

24. What does the worm above feed on?



25. How is a thermos flask helpful in a home?
26. Why does a coin sink when it is placed in a basin full of water?
27. Name any one example of dairy breed of goats.
28. State what happens when pollen grains of a flower settles on the stigma.
29. State any one structural difference between a vein and an artery.
30. Give one way how echo can be reduced in a studio.
31. Suggest any one characteristic of wind pollinated flowers.
32. State any one natural cause of environmental degradation.
33. Which part of the ear equalizes pressure in and outside the ear?
34. Give one reason why farmers castrate their farm male animals.

35. Why is the left side of the heart able to pump blood to most body parts?

.....  
.....

36. Why is water obtained by distillation not good for drinking?

.....  
.....

37. How is the breathing of a tadpole similar to that of a fish?

.....  
.....

38. Which immunisable disease affects the liver?

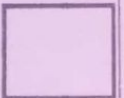
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39. How can a P.6 pupil increase the pitch of sound produced by tube fiddle?

.....  
.....

40. Apart from help of synovial fluid, state one way how friction can be reduced in a joint.

.....  
.....



### SECTION B

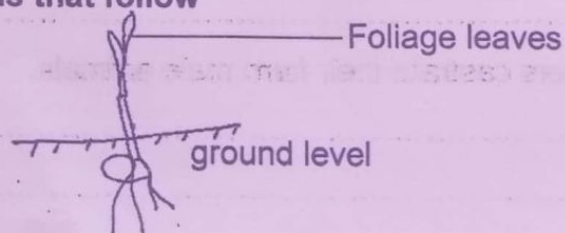
41(a) State any two reasons why mushroom is not a plant.

- (i) .....
- (ii) .....

(b) Give any two plants that reproduce in the same way like a mushroom.

- (i) .....
- (ii) .....

42. The diagram below shows a germinating seed. Use it to answer the questions that follow





(a) State the type of germination shown above

(b) Where does the above seed store the food used during germination?

(c) Apart from moisture, give any one other condition necessary for seed germination.

(d) What type of leaf venation does the above seedling develop after it has fully grown?

43(a) What are essential drugs?

(b) Suggest any two characteristics of essential drugs.

(i)

(ii)

(c) Give one example of essential drugs.

44(a) Which body organ removes urine from the body belong.

(b) To which body system does the organ that removes urine from the body belong?

(c) Where does urine collect before it is removed from the body.

- (d) Name any one component of urine.

45. A charcoal maker was making charcoal kiln, He accidentally stepped on a burning charcoal.

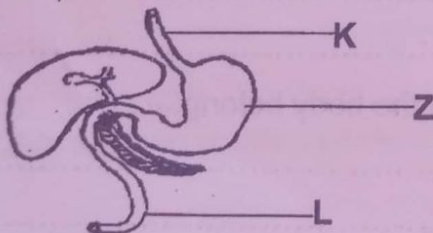
- (a) What type of accident is he likely to get?

- (b) What first aid would you give the man?

- (c) Why would you recommend the first aid named in (b) above.

- (d) Apart from above accident, name any other one accident caused by hot substance.

46. The diagram below shows a part of the human digestive system. Use it to answer questions that follow.



- (a) Name the parts marked K and L.

(i) K

(ii) L

- (b) State the function of part Z.



- (c) Give one disorder of the above system.

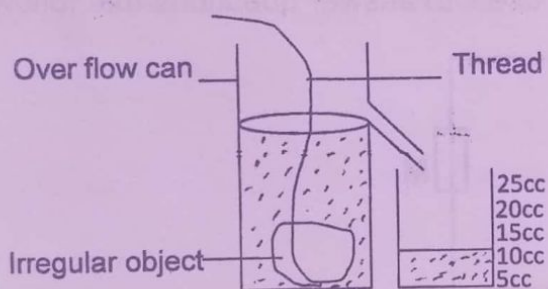
47(a) Name any one example of drug of dependence

- (b) Give one way in which drug dependence can affect an individual.

- (c) State two ways in which an individual can avoid drug dependence.

- (i) .....  
(ii) .....

48. The experiment below was performed by a P.5 class on how to find the volume of irregular object. Study it and answer question that follow.



- (a) Name the method of finding volume.

- (b) What is the volume of irregular object above?

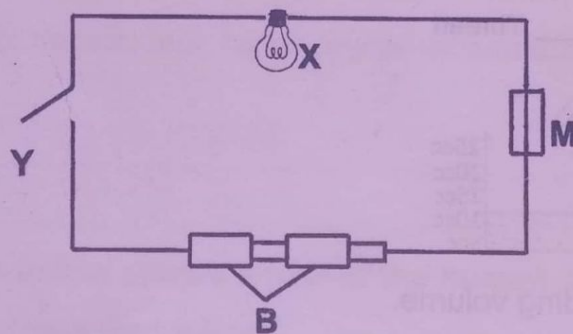
- (c) Calculate the density of the irregular object if its mass is 80gm. (2 mks)

49. The table below shows a list of animals in P and diseases affect them in R. match the items in list R with those in list P correctly.

List P	List R
Cattle	Newcastle
Dogs	African swine fever
Pigs	Rabies
Fowls	Rinder pest
	River blindness

- (a) Cattle Rinder .....
- (a) Dogs .....
- (c) Pigs .....
- (d) Fowls .....

50. The diagram below is of an electric circuit use it to answer questions that follow



- (a) Name the part marked with letter Y.  
.....  
.....
- (b) State the energy change which would take place at part B if the circuit is complete.  
.....  
.....  
.....
- (c) How is the function of part Y different from that of M in an electric circuit above.  
.....  
.....  
.....



(c) Apart from light energy, give any other form of energy produced at X.

.....  
.....

51(a) Give any two conditions in which babies are vulnerable.

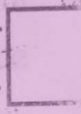
- (i) .....  
(ii) .....

(b) State any two ways in which family members can care for vulnerable women.

- (i) .....  
(ii) .....

52(a) Identify the importance of the following items during milk.

(i) warm water.....

(ii) milking jelly ..... 

(b) Give any two products obtained from milk.

- (i) .....  
(ii) .....

53(a) State any one difference between chemical change and physical change.

.....  
.....

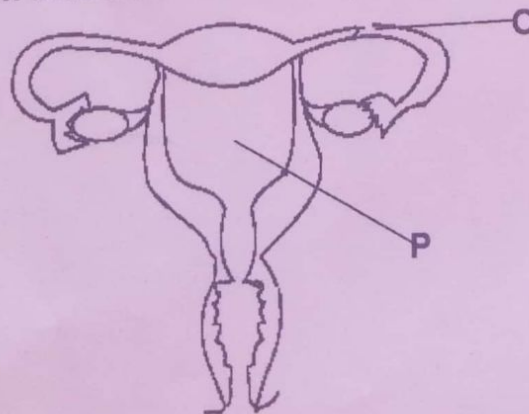
(b) Mention any two examples of chemical change in animals.

- (i) .....  
(ii) .....

(c) Suggest one way how physical changes are important in the environment.

.....

54. The diagram below is a female reproductive system. Use it to answer question



- (a) Name the important process which takes place in part **P** and **O**.
- (i) **P** .....
- (i) **O** .....
- (b) What name is given to the condition when a fertilized ovum implants itself in part **O**.
- .....
- .....
- (c) State one way of caring for the a body organ above.
- .....
- .....

55. In an experiment salt is mixed with water and stirred until it dissolves to form a solution. What do the following act as in the experiment.

- (i) water .....
- (ii) Salt .....
- (b) Name any other substance that could be used instead of salt.
- .....
- .....
- (c) How can salt be recovered from the solution?
- .....
- .....

