

**KCCA PRIMARY SCHOOLS EXAMINATIONS COMMITTEE**  
**PRIMARY SIX END OF YEAR EXAMINATIONS 2022**  
**INTEGRATED SCIENCE**

TIME ALLOWED: 2 HOURS 15 MINUTES

PUPIL'S NAME: \_\_\_\_\_

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

DIVISION: \_\_\_\_\_

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

*Read the following instructions carefully.*

1. This paper is made up of 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 both sections **A** and **B**
5. ALL answers **MUST** be written in Blue or Black  
Ball - point pen or ink
6. Un-necessary alteration of work may lead to  
loss of marks.
7. All diagrams **MUST** be drawn in pencils.
8. Any handwriting that cannot be easily read may  
lead to loss of marks.
9. Do **not** fill any thing in the boxes shown

**"For Examiner's use only".**

**FOR EXAMINER'S USE  
ONLY**

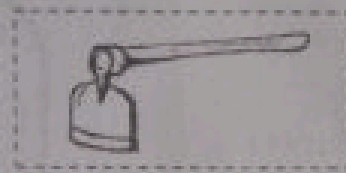
Q/N. NO.	MARKS	SIGN
1 - 10		
11 - 20		
21 - 40		
41 - 45		
46 - 50		
51 - 55		
<b>TOTAL</b>		

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### SECTION A

1. Name the reproductive part of a plant.  
.....
2. How does severe diarrhoea affect our bodies?  
.....
3. Name the vector that spreads rabies to people.  
.....
4. In which state of matter is ice?  
.....
5. Give the use of a dustbin in your classroom.  
.....

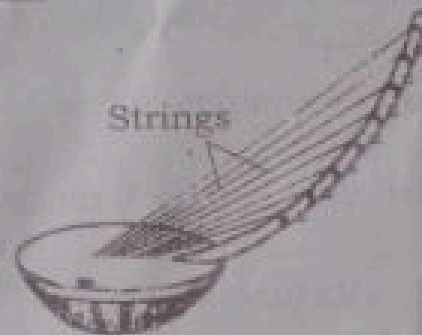
Below is a garden tool. Use it to answer questions number 6.



6. Give the use of the garden tool above to a crop farmer.  
.....
7. State the danger of keeping long finger nails to our health.  
.....
8. Mention one solute used in preparing O.R.S.  
.....
9. How is the reproduction in mammals different from the one of amphibians?  
.....
10. State one weather condition that requires one to use an umbrella.  
.....
11. How is tobacco smoking dangerous to a pregnant woman?  
.....
12. Besides weathering of rocks, give one other method through which soil is formed.  
.....
13. State the characteristic that makes a black jack seed to be dispersed by animals.  
.....
14. Which deficiency disease is caused by lack of proteins in our bodies?  
.....
15. Name the vector that spreads trachoma to people.  
.....

16. Give one raw material necessary for photosynthesis to take place.  
.....
17. Write one PIASCY message that can help to control the spread of HIV and AIDS among the youth.  
.....
18. How does mulching of the garden help to control soil erosion?  
.....
19. Name the type of teeth used for tearing food.  
.....

The diagram below is of a musical instrument. Use it to answer the questions 20 and 21.



20. To which group of musical instruments does the one above belong?  
.....
21. How does the above musical instrument produce sound?  
.....
22. State the importance of hair in the nose during breathing.  
.....
23. Mention any one disorder of the human digestive system.  
.....
24. Why do farmers keep layer chicken?  
.....
25. Give one activity the community can do to reduce the spread of malaria.  
.....
26. Why does a piece of paper float on water?  
.....
27. State one cause of swarming in bees.  
.....
28. Name any one root tuber crop propagated by stem cutting.  
.....

9. Why is it not advisable to drink filtered water before boiling?

10. Mention the out door system of keeping poultry commonly used by farmers in rural areas.

The diagram below is equipment used in a dairy farm. Use it to answer questions 31.



1. State the function of the above equipment to a cattle farmer.

2. Give the characteristic that differentiates birds from other vertebrates.

3. How is the ileum adapted to its function?

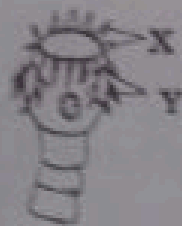
4. Which process in plants contributes to rain formation in an area?

5. Name one body organ damaged by excessive consumption of alcohol.

6. Apart from income, give any one other reason farmers keep goats.

7. Mention the blood component destroyed by plasmodium germ.

The diagram below shows the scolex. Use it to answer question number 38 and 39.



8. Name part Y.

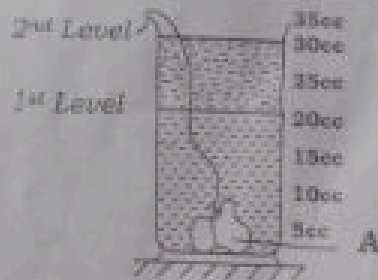
9. How is part X useful to the organism above?

10. Which body organ helps to filter blood in the human body?

### SECTION B

41. a) Define personal hygiene? .....
- b) Suggest **two** activities a P.6 pupil can carry out to promote personal hygiene.
- i) ..... ii) .....
- c) State the importance of rinsing clothes during washing.

42. Below is a method of finding volume of an irregular object. Study it carefully to answer the questions that follow.

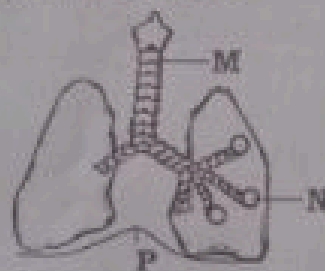


- a) Name the method of finding volume shown above.
- b) Calculate the volume of the irregular object A. (2marks)
- c) Give a reason why object A sunk in water.
43. a) Mention **two** examples of renewable resources.
- i) ..... ii) .....
- b) Why are the resources mentioned in (a) above said to be renewable?
- c) Give **one** way we can conserve renewable resources.

44. Match the organ to the digestive juice produced.

Organ	Digestive juice
a) Pancreas	Gastric juice
b) Liver	Intestinal juice
c) Stomach	Bile juice
d) Ileum	Pancreatic juice
a) Pancreas	.....
b) Liver	.....

- c) Stomach .....
- d) Ileum .....
45. a) Name one breed of cattle kept for beef production.  
.....
- b) State one advantage of keeping local breeds over exotic breeds.  
.....
- c) How can a farmer improve on local breeds of cattle?  
.....
- d) Give one way of controlling external parasites in cattle.  
.....
46. a) Name the major source of heat energy in the environment.  
.....
- b) How is heat transfer by conduction useful in our daily life?  
.....
- c) Apart from conduction, give one other method of heat transfer.  
.....
- d) Give one way heat energy can be dangerous to people.  
.....
47. The diagram below shows parts of the respiratory system. Use it to answer questions that follow.



- a) Name part marked M. ....
- b) Why is part marked M made out of rings of cartilage?  
.....
- c) Which process takes place in part marked N?  
.....
- d) Suggest one way of caring for the above body organ.  
.....
48. a) Give any two crop growing practices that can be done to improve on soil fertility.  
i) .....  
ii) .....
- b) State one reason why farmers sort seeds before planting.  
.....

c) How can farmers control crop pests in the garden?

49. a) State the cause of fainting in a person.

b) Write two conditions that can lead to fainting.

i) .....

ii) .....

c) Why should the legs of a fainted person be raised slightly higher than the head?

50. Study the table below carefully and use it to answer the questions that follow.

A	B	C
Lion	Lizard	Frog
Cow	Tortoise	Newt
Chimpanzee	Chameleon	Salamander

a) To which group of vertebrates do organisms in List A belong?

b) How are animals in list B similar to those in list C in terms of reproduction?

c) Mention one other animal that can be grouped together with those in list C.

d) Give one characteristic common to all the animals listed in the table above.

51. a) Write P.H.C. in full.

b) Which element of P.H.C is promoted through the following activities;

i) Taking a meal containing all food values

ii) Proper use of latrines

c) State one way a P.6 pupil can promote immunization program in the community.

52. a) Mention any two examples of physical changes in the environment.

i) .....

ii) .....

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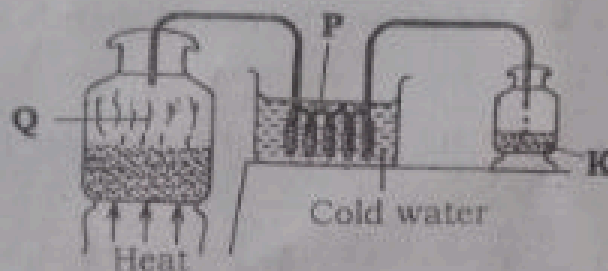
ii) .....



b) State one characteristic of physical changes.

c) How is burning similar to rusting?

53. The diagram below shows a method of making alcohol. Use it to answer the questions that follow.



a) Identify the method of making alcohol shown above.

b) Name the process marked Q.

c) Why is the delivery tube passed through cold water at point P?

d) Give the scientific name for the substance marked K.

54. a) In which part of the human female reproductive system does fertilization take place?

b) Give one secondary sex characteristic common in adolescent boys and girls.

c) Name any one disease of the human reproductive system.

d) State one way of caring for the human reproductive system.

55. a) Give one example of useful fungi in our environment.

b) How do most fungi reproduce?

c) Why are fungi unable to make their own food?

d) Name one fungal disease that affects people.