

# KAMPALA JUNIOR ACADEMY

## LOWER WORK TEST II 2020

### PRIMARY SEVEN

### INTEGRATED SCIENCE

*Time allowed: 2 hours 15 minutes*

Index No.

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Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School Name: \_\_\_\_\_

Read the following instructions carefully:

1. The 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. Do **not** fill anything in the boxes indicated;  
For Examiner's use only.

FOR EXAMINER'S USE ONLY

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ONLY

Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

*Turn over*

**SECTION A: 40 MARKS**

***(Questions 1 to 40 carry one mark each)***

1. Which clouds are formed by rising water vapour?

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2. Name the gas that fire fighters use to stop fires.

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3. Why is loam soil the best for crop growing?

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4. In which way are feathers useful to man?

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5. Suggest one proper way of disposing rubbish both at home and school.

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6. Give one reason why farmers choose to castrate their male goats and sheep.

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7. What food value does one get from consuming posho?

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8. Which component of blood is affected by sickle cell anaemia?

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9. Write DPT in full.

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10. How do bacteria reproduce?

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*The diagram below shows a germinating seed. Use it to answer questions 11 and 12.*



11. Which type of germination is shown in the diagram above?

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12. Name the seed marked X.

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13. On which part of an insect are the legs attached?

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14. Why do bees swarm?

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15. By what process does heat travel through gases?

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16. Give one example of an exotic breed of poultry.

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17. Suggest one way of making water safe for drinking.

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18. Write another name for air sacs found in human lungs.

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19. In which harmful way is a mosquito similar to a tsetsefly?

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The diagram below shows a garden tool. Use it to answer questions 20 and 21.



20. Name the tool shown above.

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21. How do farmers use the tool above in their gardens?

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22. How is sound produced on a guitar?

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23. Why does paraffin float on water?

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24. How does painting of metals prevent them from rusting?

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25. What is crop rotation?

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26. Apart from conjunctivitis, name one other eye disease.

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27. What are vertebrates?

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28. Why is breast-feeding important to the baby?

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29. How does a tadpole take in oxygen?

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The diagram below shows a human tooth. Use it to answer questions 30 and 31.



30. Name the tooth shown above.

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31. What is the function of the tooth shown above during digestion?

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32. How is a sprain different from a strain?

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33. In the space below, draw a clear diagram of a red blood cell.



34. Identify any one form of environmental degradation.

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35. The mass of an object is 80g and its volume is 10cc. Find its density.

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36. Give the importance of drug prescription.

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37. How are echoes in cinema halls controlled?

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38. State one mineral salt lost during dehydration.

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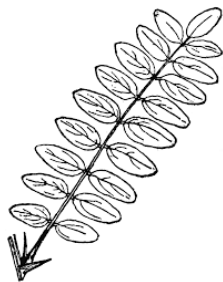
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39. In which way are treads on a car tyre important to the driver?

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The diagram below shows a leaf. Study it and answer question 40.



40. What type of compound leaf is shown above?

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### **SECTION B**

***(Questions 41 to 55 carry four marks each)***

41. An Irish potato of mass 40g was immersed in a measuring cylinder containing 25cm<sup>3</sup> and the water rose to 45cm<sup>3</sup> mark.

- (a) Find the volume of the Irish potato.

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- (b) What was the density of the potato?

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- (c) What is Density?

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- (d) Why was the method above used to find volume of the Irish potato?

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- 42(a) Name one method of producing alcohol.

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- (b) In which way is alcohol important to people?

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- (c) Give one reason why people drink alcohol.

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- (d) Suggest one effect of alcohol to the family.

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- 43 Study the animal list below and use it to answer questions that follow.

**HAWK, RAT, FROG, SNAKE**

- (a) How are the animals above similar?

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- (b) State the similarity between the hawk and snake in terms of fertilization.

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- (c) Name the odd man out.

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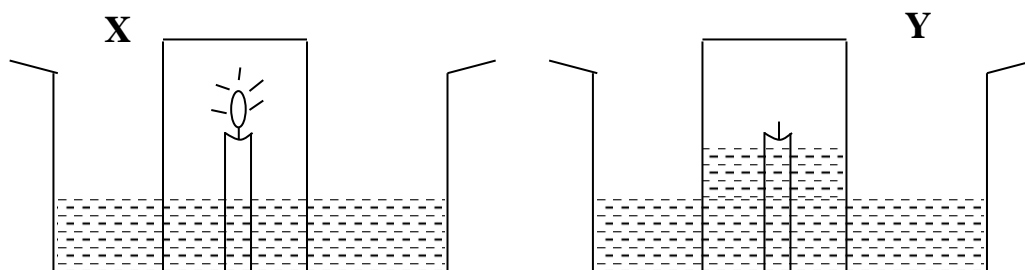
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- (d) Give a reason for your answer in (c) above.

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44. The diagrams below show an experiment carried out by a group of pupils. Study them and answer the questions that follow.



- (a) Give one form of energy produced at stage X.

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- (b) What does the experiment show?

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- (c) Why did the candle go out in stage Y?

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(d) Why did the level of water rise in the glass jar as shown in stage **Y**?

45(a) Mention any two components of soil.

(i)

(ii)

(b) Which type of soil do we use for;

(i) modelling

(ii) making glasses

46(a) Name any four things that a good house should have.

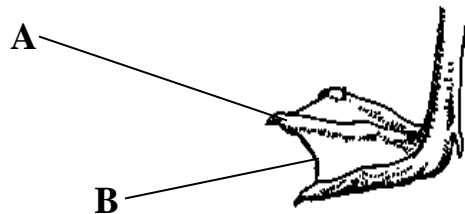
(i)

(ii)

(iii)

(iv)

47. Study the diagram below and answer the questions that follow.



(a) What name is given to part marked **A**?

(b) State the function of part marked **B** on a bird?

(i)

(ii)

(c) List any two examples of swimming birds.

(i)

(ii)



48(a) What is soil erosion?

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(b) Name the layer of soil that is mostly affected by erosion.

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(c) Which type of erosion takes place in gardens on a flat land?

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(d) How do animals carry-out soil erosion?

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49(a) What is a Doe?

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(b) Name the habitat for a domestic rabbit.

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(c) Give two characteristics of exotic rabbits.

(i)

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(ii)

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50(a) What is a nursery bed?

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(b) Name any two plants grown first in a nursery bed.

(i)

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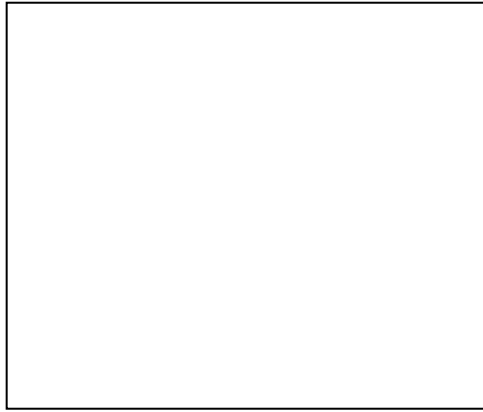
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(ii)

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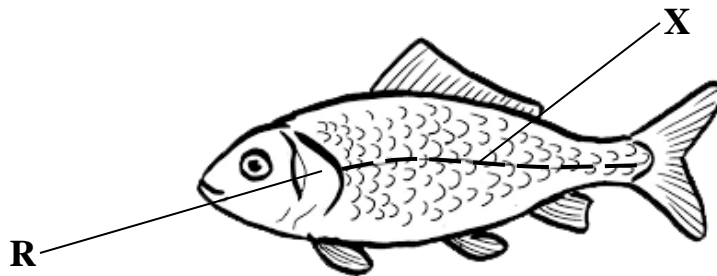
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- (c) Draw and name the tool used by farmers to transplant seedlings from a nursery bed.



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51. Use the diagram of a fish below to answer questions that follow.



- (a) Name the parts labelled **X** and **R**.

(i) **X** \_\_\_\_\_

(ii) **R** \_\_\_\_\_

- (b) In which way is reproduction in fish similar to one in amphibians

\_\_\_\_\_  
\_\_\_\_\_

- (c) How does a fish protect itself from enemies?

\_\_\_\_\_  
\_\_\_\_\_

- 52(a) What is interdependence?

\_\_\_\_\_  
\_\_\_\_\_

- (b) Name any two components which make up the environment.

(i) \_\_\_\_\_

- (ii) \_\_\_\_\_
- (c) Give one way in which plants depend on animals.
- \_\_\_\_\_
- \_\_\_\_\_

53(a) State any two examples of common sicknesses in a home.

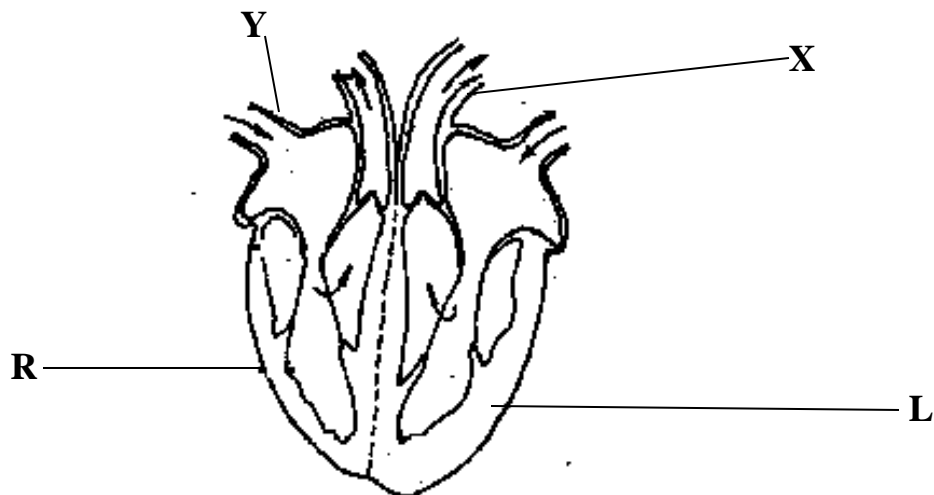
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) Name the germ that causes cholera.
- \_\_\_\_\_

(c) Give one way of controlling the spread of cholera in a community.

\_\_\_\_\_

\_\_\_\_\_

54. The diagram below shows the human heart. Study it and answer the questions that follow.



(a) Name the parts marked with letters **X** and **Y**.

- (i) **X** \_\_\_\_\_
- (ii) **Y** \_\_\_\_\_

(b) Why is part labelled **L** thicker than part **R**?

\_\_\_\_\_

\_\_\_\_\_

(c) How can a person maintain the proper functioning of his/her heart?

\_\_\_\_\_

\_\_\_\_\_

55. Name the processes by which;

- (a) ice turns into water \_\_\_\_\_
- (b) water turns into steam \_\_\_\_\_
- (c) steam turns into liquid \_\_\_\_\_
- (d) liquids turn into solids \_\_\_\_\_

***Good luck***

