

**KAMPALA URBAN SCHOOLS**  
**PRIMARY LEAVING SPECIAL MOCK EXAMINATION, 2020**  
**PRIMARY SEVEN**  
**INTEGRATED SCIENCE**

*Time allowed: 2 hours 30 minutes*

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

INDEX NUMBER 

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EMIS NO: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

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**

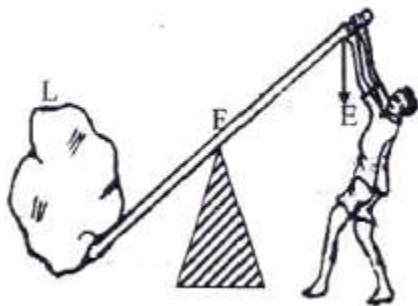
Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
<b>TOTAL</b>		

*“Success is for those who work hard”*

**SECTION A: (40 marks)**

1. Name any one example of a root tuber.  
\_\_\_\_\_
2. Which disease can one suffer from due to lack of water for bathing?  
\_\_\_\_\_
3. Give one reason why small stones are added to poultry feeds.  
\_\_\_\_\_

**The diagram below shows a type of lever. Use it to answer the question that follows.**



4. To which class of levers does the above machine belong?  
\_\_\_\_\_
5. Apart from soap, name one other material used in washing our clothes.  
\_\_\_\_\_
6. Give one use of an arm sling in giving first aid for fractures.  
\_\_\_\_\_
7. Apart from ferns, which other plant produces by means of spores?  
\_\_\_\_\_
8. Name any one mammal that produces by laying eggs.  
\_\_\_\_\_
9. What is the role of a dog in a home?  
\_\_\_\_\_
10. Give one way of controlling wind erosion in a garden.  
\_\_\_\_\_
11. Apart from milk, name one other protein food got from cattle.  
\_\_\_\_\_
12. Why should a husband and wife go for HIV testing together?  
\_\_\_\_\_

13. Name the practice in poultry that enables birds to exercise their body in a deep litter house.

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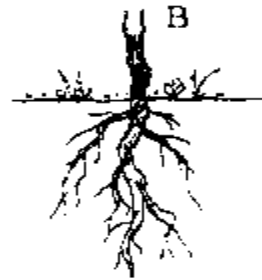
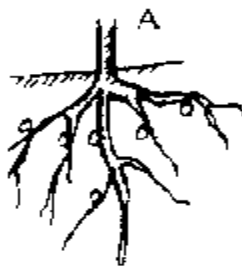
14. Give one item we use in cleaning our teeth.

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15. How do moles benefit from loam soil?

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**The diagrams below are types of root systems. Use them to answer the questions that follow.**



16. Give one difference the root system marked A and B in the diagrams above.

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17. Mention one example of plants with the root system shown in diagram A.

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18. Give one use of fats in the human body.

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19. How do trees contribute to the water cycle?

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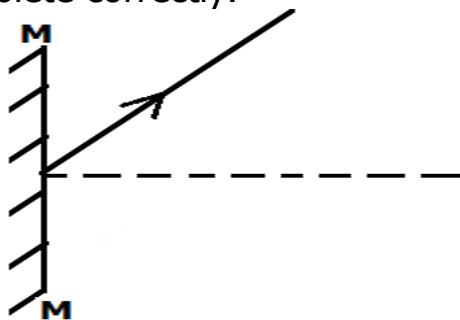
20. Give one use of magnets to electricians.

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21. What type of pollination occurs in papaw plant?

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22. Complete correctly.



23. Name the germ that causes Covid-19.

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24. Name the force produced when two surfaces rub against each other.

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25. How does the nail below acquire magnetism?



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26. State the role of the oviduct in a female reproductive system.

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27. In which one way does a child get natural immunity?

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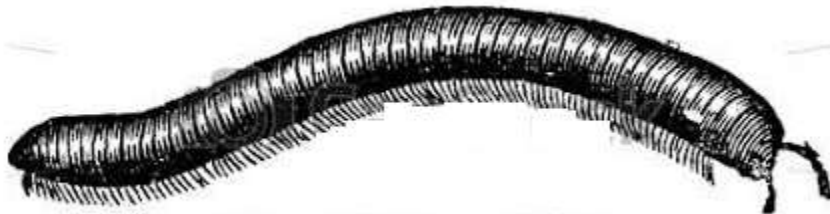
28. Name the tissue which joins bones together at a joint.

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29. Why does sugar disappear when mixed in water?

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**The diagram below is of an invertebrate. Use it to answer the question that follows.**



30. To which group of invertebrates does the one shown in the diagram above belong?

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31. Which type of injury is caused by dry heat?

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32. How can you care for seedlings in a nursery bed?

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33. What role does a micropyle play on a germinating bean seed?

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34. State the living organism which causes scabies in human beings

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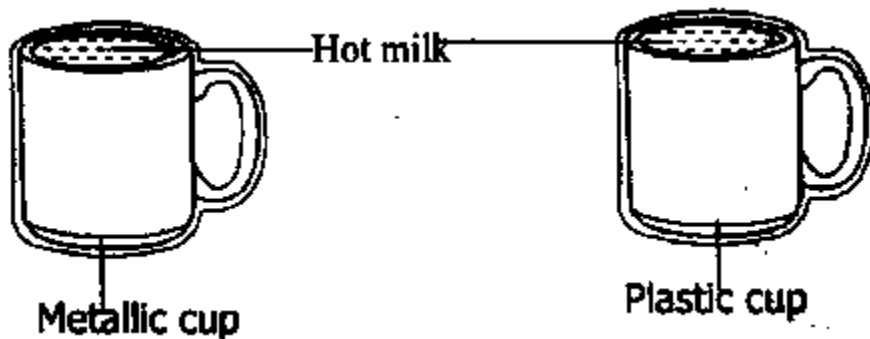
35. Why does digestion of starch take place in the mouth?

\_\_\_\_\_

36. Give one benefit of dehorning cattle in cattle management.

\_\_\_\_\_

**The diagram below shows two cups made up of different materials. Use them to answer question**



37. Which of the two cups had hot milk after 20 minutes?

\_\_\_\_\_

38. Give one danger of burning polythene materials in the environment.

\_\_\_\_\_

39. How does heat travel in liquids?

\_\_\_\_\_

40. What happens to the diaphragm when we breathe out?

\_\_\_\_\_

**SECTION B**

41(a) Give any two examples of chemical changes.

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

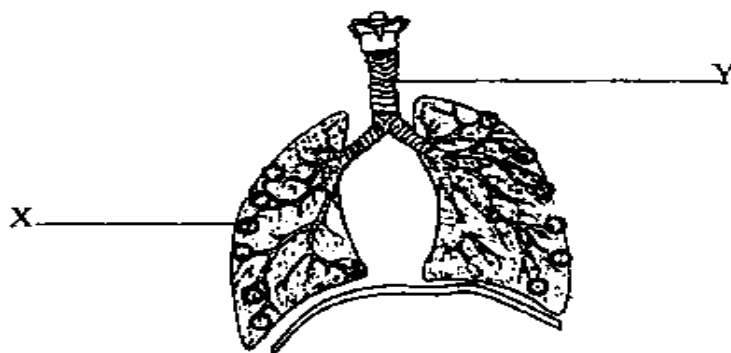
(ii) \_\_\_\_\_

(b) Write down any two characteristics of physical changes.

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

(ii) \_\_\_\_\_

42. **The diagram below is of a respiratory organ. Use it to answer the questions that follow.**



- (a) Name the parts marked by letters:  
 (i) X \_\_\_\_\_  
 (ii) Y \_\_\_\_\_  
 (b) Which process takes place in the part marked X?  
 \_\_\_\_\_  
 (c) What helps part marked Y to keep open all the time?  
 \_\_\_\_\_

- 43(a) Apart from wind, give two other agents of pollination in flowering plants.  
 (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_  
 (b) Which part of a flowering plant mainly does the following;  
 (i) Manufactures food: \_\_\_\_\_  
 (ii) Absorbs water and mineral salts? \_\_\_\_\_

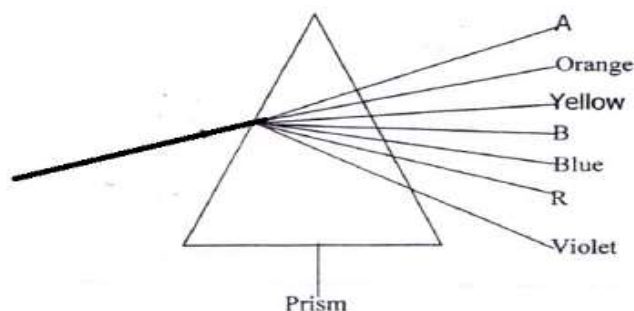
- 44(a) Give any two benefits of keeping exotic breeds of cattle.  
 (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_  
 (b) Give any one importance of the following management practices in cattle keeping:  
 (i) castration: \_\_\_\_\_  
 (ii) ear tagging: \_\_\_\_\_

45. **Match list A to list B correctly.**

- | <b>A</b> | <b>B</b>   |
|----------|------------|
| lizard   | mammals    |
| newts    | Birds      |
| Rabbits  | Reptiles   |
| Penguin  | Amphibians |

- (i) Lizard \_\_\_\_\_  
 (ii) Newts \_\_\_\_\_  
 (iii) Rabbits \_\_\_\_\_  
 (iv) Penguin \_\_\_\_\_

46. **The diagram below shows the effect of white light on an object. Use it to answer the questions that follow.**



- (a) Name the colours shown by letters
- (i) A \_\_\_\_\_
- (ii) B \_\_\_\_\_
- (b) Why does light bend when it enters a triangular prism?
- \_\_\_\_\_
- (c) What name is given to the seven colours as illustrated in the diagram above?
- \_\_\_\_\_

47(a) State two physical differences between an artery and a vein.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

(b) Which type of blood is transported by most blood vessels with valves?

\_\_\_\_\_

(c) Name any one waste material transported by blood.

\_\_\_\_\_

48. **The table below shows immunisable diseases, vaccines administered and the age at which immunization takes place. Complete it correctly.**

Diseases	Vaccine	Age
Measles	_____	9 months
_____	BCG vaccine	At birth
Polio	Polio vaccine	_____
Hepatitis B	_____	6 weeks

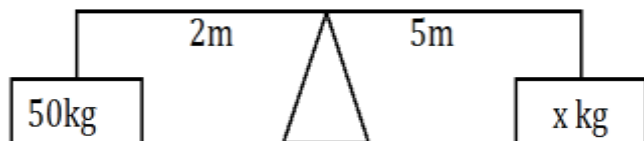
49(a) Apart from filtration, give two other methods of separating impurities from water.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

(b) Name two activities done in the process of cleaning clothes.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

50. (a) Given the see saw below. Find the value of x in newtons. (2mks)



(b) Why is a pair of scissors said to be a double lever?

(c) Apart from a pair of scissors, give one other example of a machine in the first class lever.

51(a) Give one reason why the government of Uganda gives people mosquito nets free of charge.

(b) Name any two diseases controlled by proper use of mosquito nets in a home.

(i)

(ii)

(c) Which stage of a mosquito is affected by draining stagnant water?

52(a) Give one reason why a piece of paper floats on water.

(b) Apart from a piece of paper, give one other object that floats on water.

(c) A stone with  $0.5\text{kg/cm}^3$  was totally immersed in a measuring cylinder full of water and the water level rose from  $30\text{cm}^3$  to  $50\text{cm}^3$

(i) Find the volume of the stone.

(ii) Calculate the mass of a stone.



53(a) State any two reasons why bees swarm?

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

(ii) \_\_\_\_\_

(b) Give any two ways a bee keeper can care for bees in an apiary.

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

(ii) \_\_\_\_\_

54(a) Give the function of the following parts of a skeleton.

(i) Rib cage:  
\_\_\_\_\_

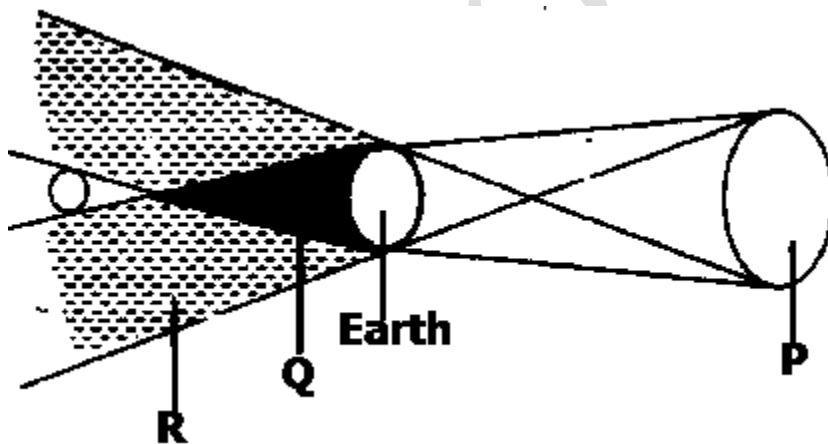
(ii) Tendon:  
\_\_\_\_\_

(b) State any two pieces of advice you can give someone to maintain the skeletal system in a proper working condition.

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

(ii) \_\_\_\_\_

55. **The diagram below shows a lunar eclipse. Use it to answer the questions that follow.**



(a) Name the body marked P.

\_\_\_\_\_

(b) Name the regions marked by letters:

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

(ii) Q \_\_\_\_\_

(c) Give a reason why region marked Q is darker than other regions.

\_\_\_\_\_

END