

# KAMPALA PRIMARY SCHOOLS'

## SKYLINE EXAMINATIONS™

**Pre-MOCK – 2023**

**1**

### INTEGRATED SCIENCE AND HEALTH EDUCATION

*Time Allowed: 2 hours 15 minutes*

Index No.

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Candidate's Name:.....

Candidate's Signature:.....

School Name:.....

District Name:.....

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

FOR  
EXAMINERS'  
USE ONLY

**Read the following instructions carefully;**

1. The paper has **two** Sections: **A** and **B**.
2. Section **A** has 40 short questions ( 40 marks ).
3. Section **B** has 15 questions ( 60 marks ).
4. Attempt **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using blue or black ball-point pen or ink. Only diagrams and graphs work may be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for examiners' use only.

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

## SECTION A

1. How is chlorophyll necessary during photosynthesis process?

2. Name the smallest blood vessel.

3. Give a reason why animals move at times from one place to another.

4. Why is a snake said to be a cold blooded organism?

5. In which compass direction is the shadow at morning time?

6. What is drug prescription?

Study the diagram below and use it to answer question 7.



7. Identify the bird with such a foot shown.

8. Why do ships float on water and yet they are very large?

9. Give one drug of dependence the youth abuse in most communities today.

10. What name is given to the response of plants towards water?

Study the diagram below and use it to answer question 11.



11. Name the electric symbol given.

12. In which way are stomata similar to the moist skin of an earthworm?

13. What is the gestation period of a ewe?

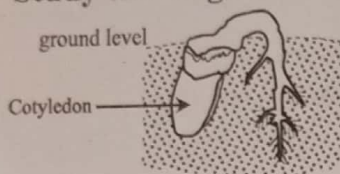
14. State one way you can advise people in your community to cope with stress.

15. Why is sorting clothes for washing an essential aspect in laundry?

16. How can **one** identify a cow on heat?

17. When shall an adult female of 25 years said to have conceived?

Study the diagram below and use it to answer question 18.



18. Identify the type of germination shown.

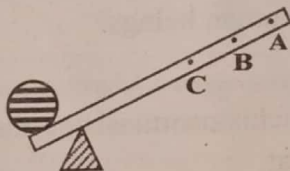
19. Mention any **one** characteristic of laboratory manufactured drugs.

20. Give the importance of using soft tissue while using the water cleaned toilets (WC).

21. When can one use “mouth to mouth” breathing while giving first aid?

22. Mention the energy resources needed for production of tidal electricity.

John was asked to move a stone given below using a simple machine as shown in the diagram.



23. At what point will John use the least effort?

24. Apart from formation of clouds, state any other area where condensation can take place to have water / liquid.

25. What is silting?

26. Give **one** example of an exhaustible resource in the environment.

27. Name the main organ of respiration.

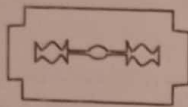
28. Give **one** example of animal fibre.



29. State any **one** effect of higher population density to an area.

30. Mention the use of scrotum in a bull.

Study the diagram and use it to answer question 31.



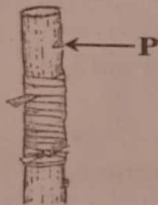
31. Name the simple machine shown.

32. Give **one** example of a pouched mammal.

33. Which disease can affect people who smoke daily?

34. What germ causes syphilis (STD)?

Study the diagram below and use it to answer question 35.



35. Name part P in the diagram.

36. Give **one** area in the body that has a wrist joint.

37. What is the second set of teeth in human beings?

38. Mention the molluscs that spread schistosomiasis germs to people who use water where they breed in and as a habitat.

39. Give any **one** example of a constrictor found in Uganda.

40. Why do crop farmers transplant seedlings to main gardens at evening time?

## SECTION B

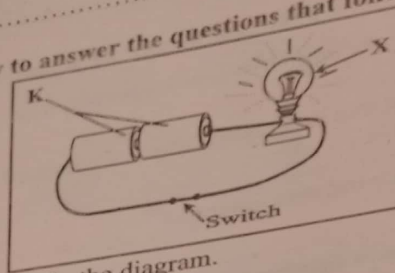
41. a) Which stage of a tsetse fly is produced on earth from its abdomen?

b) Why is an ovipositor important to some insects?

c) Mention the germ that causes Nagana to cattle.

d) How can tsetse flies be controlled in the environment?

Use the diagram below to answer the questions that follow.



42. a) Show the flow of current in the diagram.

b) What form of energy is produced at K?

c) Mention the energy produced at X which can be felt.

d) Calculate the amount of voltage used in the circuit diagram.

43. a) Give any two necessary conditions for rusting to take place.

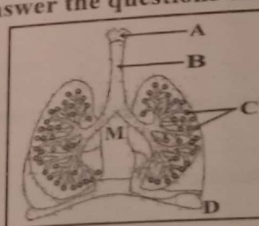
(i) .....

(ii) .....

b) State one danger of rusting to wedges.

c) Of what advantage can rusting be to a crop farmer?

Use the diagram below to answer the questions that follow.



44. a) To which body system does the organ above belong?

b) Name the part marked A.

c) What enables parts marked C to carry out their function of gaseous exchange?

d) What happens to part marked **D** during exhalation?

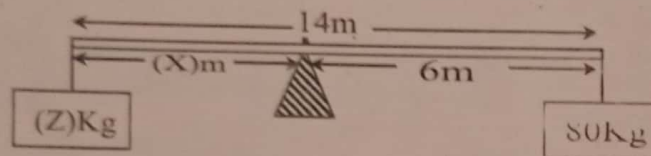
45. a) State the difference between pitch and volume of sound.

b) Mention **one** factor that can determine the pitch of sound.

c) Give **one** example of a wind instrument.

d) State **one** use of echoes to fishermen.

Use the diagram given below to answer questions that follow.



46. a) With the use of an arrow and letter **F**, show the position of the fulcrum.

b) Identify the class of lever above.

c) Work out the weight needed at **Z** in Kgs to make the simple machine be at equilibrium. (2marks)

47. a) What is crop harvesting?

b) Why should most cereals be harvested during the dry season?

c) Name any **two** examples of cereal crops.

(i)

(ii)

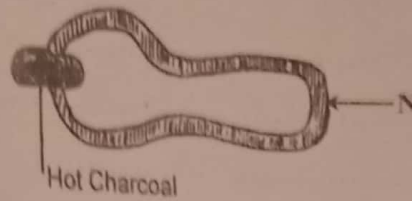
48. a) How can tall buildings be protected from lightning?

b) What importance can lightning render to a farmer?

c) How is charcoal formed?

d) Give one area where static energy can be used by people.

Use the diagram of a simple machine to answer questions that follow.



49. a) Identify the class to which the above simple machine belongs.

b) Show with letter E the position of the effort.

c) What does letter N represent?

d) Mention one area where such a simple machine can be used.

50. a) What is an alloy?

b) Mention any two materials that form brass.

(i)

(ii)

c) Give one example of liquid metal.

51. a) Identify the blood cells below?



b) Give the importance of these blood cells in our bodies.

c) Mention one disease that affects the blood cells above.



d) Which mineral salt is needed for proper formation of the blood cells shown?

52. a) Give the first step in a food path.

b) Define the following:

(i) Hardening off:

(ii) Block in a food path:

c) Why should thinning of crowded seedlings need to be done early enough?

53. a) What is a wetland?

b) State **one** benefit of wetlands to people in the environment.

c) Write down **two** ways some people have abused wetlands in Uganda.

(i)

(ii)

54. Complete the table below by filling in the appliances that use electricity, magnetism or both electricity and magnetism

Use electricity only	Use magnetism only	Use both electricity and magnetism
(i) .....	(ii) .....	(iii) .....
		(iv) .....

55. a) What is an energy resource?

b) Give the type of electricity obtained from:

(i) fossil fuels:

(ii) uranium:

c) Why is the use of energy from the sun said to be environmentally friendly?