

KAMPALA CAPITAL CITY AUTHORITY

DIRECTORATE OF EDUCATION AND SOCIAL SERVICES

PRIMARY SEVEN MOCK EXAMINATION 2024

BASIC SCIENCE AND HEALTH EDUCATION

TIME ALLOWED: 2 HOURS 15 MINUTES



INDEX NO.

EMIS No.						Personal No.		

CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:

EMIS No:

DIVISION NAME:

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 pencil.
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 EXAMINERS'

USE ONLY

QN. NO.	MARKS	SIGN
1 - 10		
11 - 20		
21 - 40		
41 - 45		
46 - 50		
51 - 55		
TOTAL		

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TURN OVER

SECTION A (40 MARKS)

Questions 1 to 40 carry one mark each.

1. What kind of change takes place when a piece of wood burns to form ash?

2. Give any **one** mammal that uses Echoes in its daily life.

3. In which way is breathing of a dog similar to that of a cat?

4. To which group of flowering plants do plants with the leaf drawn below belong?



5. State any **one** method used in milking a cow.

6. Name any **one** practice which keeps the human muscles strong and healthy.

7. Which type of honey bees has more hairy broad blunt abdomen with no sting?

8. Mention **one** importance of **P.H.C** activities in a school.

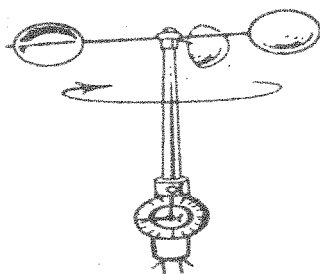
9. How is the exo-skeleton of the insect useful?

10. In which part of the human alimentary canal is water absorbed?

11. Apart from a panga and knife. Name any one example of a wedge.

12. Which component of air occupies 0.97% in the atmosphere?

Use the diagram below found in a weather station to answer questions 13 and 14.



13. Name the above weather instrument.

14. How is the above weather instrument useful?

15. Give any one method used by crop farmers in planting seeds in the garden.

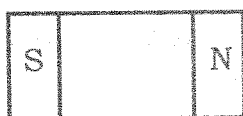
16. Mention any one component of the circulatory system apart from the heart.

17. Why is the cork on a thermos flask made of insulator?

18. State any one common sign of Bilharizia in human beings.

19. In which class of levers is the Effort in between Fulcrum and the load?

Study the diagram below carefully and use it to answer question 20.

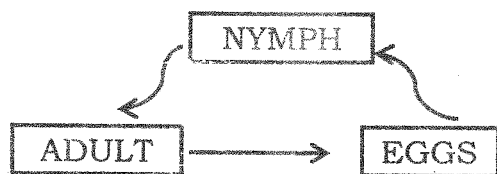


20. Give one danger of storing magnet as shown above.

21. Name any one example of breed of goats kept for milk production.

22. State any one condition that favours the breeding of bacteria.
-
23. Give a reason why cattle farmers practice Ear-Notching.
-
24. How does the planting of trees help to control soil erosion in the school compound?
-
25. Why should a school community form health clubs?
-
26. Name the disease which can be controlled by providing enough calcium in a family.
-
27. Mention any one information on a child health card beside the name of the child and parent.
-
28. How do plants cool their temperature during the hot days?
-
29. State any one common practice on the school garden that helps to improve upon the soil fertility.
-
30. Which system of poultry keeping keeps eggs away from the layers?
-
31. How is the propagation of bananas similar to that of pineapples?
-
32. Why should girls experiencing menstruation cycles abstain from sex?
-
33. Apart from humus and rock particles, mention any one other non-living component of soil.
-

34. Which fungus is used in the bakery industry?
35. How can you separate a mixture of sugar from a sugar solution?
36. Give a reason why a bee keeper should consider water source when setting a bee-hive.
37. Why should a crop farmer practice gap filling in the garden?
38. State the difference between calving and steaming up in cattle keeping.
39. What type of life cycle is shown in the diagram below?



40. In which way are food taboos a danger to children?

SECTION B

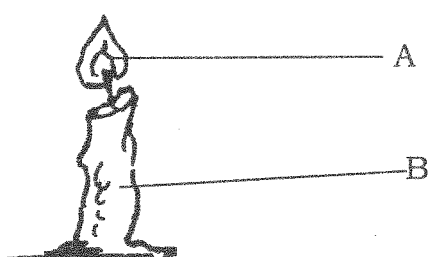
Questions 41 to 55 carry four marks each.

41. A good living house must have the following components:- windows, doors, roofs and ventilators. State in which way they are useful in a home.
- a) doors: _____
- b) windows: _____
- c) roofs: _____
- d) ventilators: _____

42. The table below shows types of electricity and their sources. Complete the gaps by filling the missing parts.

i)	Hydro-electricity	_____
ii)	_____	Fossil fuels
iii)	Geothermal electricity	_____
iv)	_____	The sun

43. The diagram below is of a burning candle.



- a) Which type of change occurs in the parts marked **A** and **B**?
- i) A - _____
- ii) B - _____
- b) State **one** characteristic of the type of change marked **B** above.
- _____
- c) Mention **one** change in the environment caused by human activities.
- _____

44. a) Give any **two** non-metallic conductors of electricity.

- i) _____
- ii) _____
- b) In which **two** ways are insulating electric wires important.
- i) _____
- ii) _____

45. a) Mention the two methods of making compost manure.

- i). _____
ii). _____

b) State the use of each of the following materials when making compost manure.

- i) Ash: _____

ii) Water: _____

46. a) Give the meaning of each of the following terms:

- i) Sinking: _____

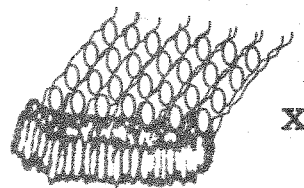
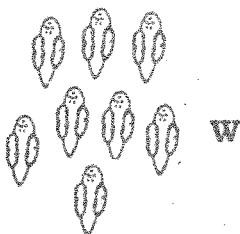
ii) Upthrust: _____

iii) Displacement: _____

b) Why can't the volume of a stone be measured using the formula:

$$L \times W \times H$$

47. The diagram below are the eggs of different mosquitoes.



a) Name the type of mosquito which lays eggs marked by **W** and **X** above.

- i) W - _____
ii) X - _____

b) What scientific name is given to the larva of a mosquito?

c) Give a reason why a female anopheles mosquito feeds on blood.

48. a) Name any two poisonous snakes.

i) _____

ii) _____

b) Why does a python swallow its prey as a whole?

c) How are snakes similar to birds?

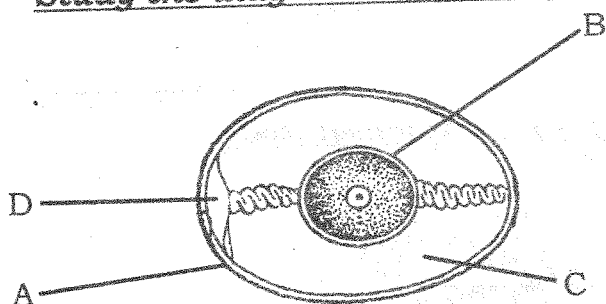
49. a) Name the type of vaccine given to children at 9 months.

b) Which method is used to administer the named vaccine in (a) above?

c) Why are vaccines always kept in cold chains or refrigerators?

d) Apart from immunization, in which one way can yellow fever be controlled?

50. Study the diagram below carefully and use it to answer questions 50.



a) Identify the parts labelled by letters **B** and **C**.

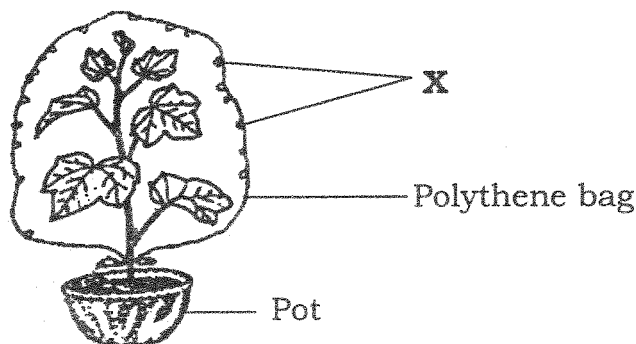
i) B - _____

ii) C - _____

b) State the function of part labelled **D**.

c) How is the part labelled **A** adapted to its function?

51. Use the diagram below to answer questions that follow.



- Name the plant process shown by the diagram above.

- What does the part marked **X** represent?

- State any **one** importance of the above plant process to plants.

- Mention **one** process in humans which is the same as the above named in 51(a).

52. Use the list of substances below to answer the questions that follow.

ICE, SUGAR, STEAM, WATER

- Which substance on the list is formed as a result of evaporation?

- Identify the substance on the list that is:-
 - a solute - _____
 - a universal solvent - _____
- In which **one** way is ice and sugar on the list above similar?

53. Match correctly the parts of the ear with their functions in the spaces below.

A (Parts of ear)	B (Functions)
Pinna	- Converts sound waves into impulses.
Ear drum	- Amplify sound vibrations.
Ossicles	- Collects sound waves from the surroundings.
Cochlea	- Changes sound waves into vibrations.

i) Pinna:

ii) Ear drum:

iii) Ossicles:

iv) Cochlea:

54. a) Name any **two** components of a rain gauge on a weather station.

i)

ii)

b) How is a rain gauge useful at a weather station?

c) Why should a rain gauge be put in an open place?

55. a) State the importance of moulting to animals with exo-skeleton.

b) How are animals with Endo-skeleton an advantage over those with Exo-skeleton?

c) State **one** example of the human skeleton below.

i) Axil skeleton:

ii) Appendicular skeleton:

END