

"In Pursuit of PLE Excellency"

KUCH & ABER EDU-LOG EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATIONS 2022

OMEGA HUB SEVEN

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

EMIS NO.						Personal No.			

Candidate's Name:.....

Candidate's Signature:.....

School Name:.....

District Name:.....

Read the following instructions carefully

1. This paper has two sections: **A** and **B**
2. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs, pictures, diagrams and maps will **not** be marked.
4. Unnecessary change of work may lead to **loss** of marks.
5. Any handwriting that cannot be easily read may lead to **loss** of marks.
6. Do **not** write anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the question paper

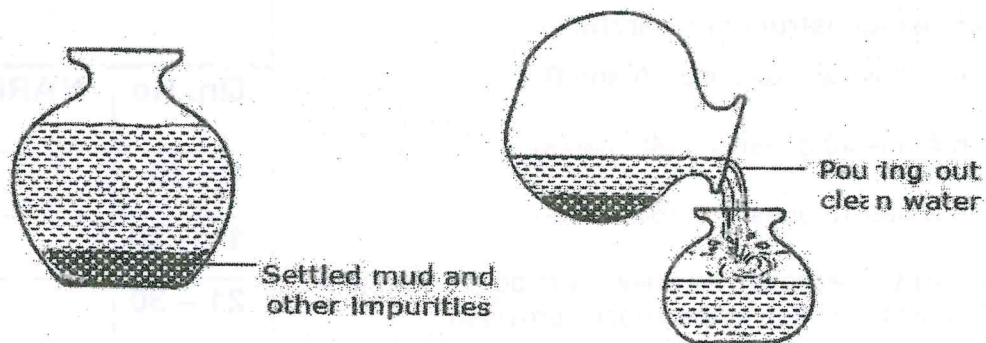
Please Turn over!

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		
TOTAL		

SECTION A: 40 MARKS
Questions 1 to 40 carry one mark each.

1. Which part of a human skeleton protects the brain?
.....
2. How are roughages important to one's diet?
.....
3. Give any **one** effect of alcoholism to an individual.
.....
4. In which way are houseflies different from tsetse flies in the way they transmit diseases to people?
.....
.....

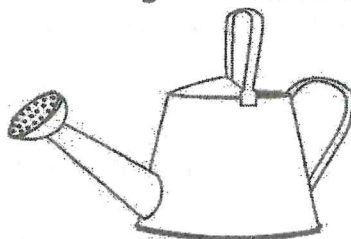
The diagram below shows a local method of making dirty water clear . Use it to answer questions 5 and 6.



5. Which method of making water clean is shown in the diagram?
.....
6. Give **one** use of the clean water obtained from the above method at home.
.....
7. State any **one** effect of frequent births to mothers.
.....
8. What is the importance of prop roots to a growing maize plant?
.....

9. Give any **one** danger of floods in our environment.
-
10. Give any **one** reason school children are encouraged to abstain from sexual intercourse.
-
11. State any **one** difference between insect pollinated and wind pollinated flowers.
-
-
12. Why do cattle keepers dehorn their cattle?
-
13. Write any **one** way of reducing the effects of echoes in cinema halls.
-
14. In which **one** way is humus important in the soil?
-

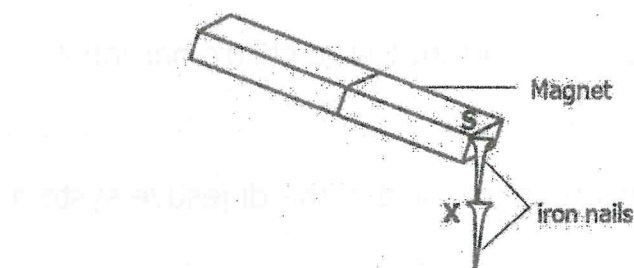
The diagram below shows a garden tool. Use it to answer questions **15** and **16**.



15. Name the garden tool shown above.
-
16. State **one** use of the above garden tool to a crop farmer.
-
17. How is a child health card important to the child's parents?
-
18. Give any **one** role of hydrochloric acid in the digestive system.
-

19. State **one** advantage of vegetative plant propagation over seed propagation.
.....
20. Mention any **one** mixture that can be separated using a magnet.
.....
21. How does deforestation lead to soil erosion?
.....
22. Mention any **one** method of preparing food at home.
.....
23. Give the importance of root nodules in leguminous plants?
.....
24. In which way are tendons useful in the human body?
.....
25. How does the cork of a thermos flask prevent heat loss?
.....
26. Why are crows, vultures and marabou storks regarded as scavenger birds?
.....
27. What is the role of sunlight energy during photosynthesis?
.....
28. Mention any **one** requirement of an expectant mother.
.....

The diagram below shows a method of making temporary magnets. Study and use it to answer questions **29** and **30**.



29. What pole will the lower iron nail form at **X** after magnetisation?
.....
30. Why is magnet formed by the iron nail said to be a temporary magnet?
.....
31. Give any **one** activity done to control tomato pests in the garden.
.....
32. State any **one** advantage of cage system in keeping poultry?
.....
33. What First Aid would you give to a child who has foreign body in the eye?
.....
34. Give any **one** way of caring for seedlings on a nursery bed.
.....
35. In which way is sharing of residential houses with animals dangerous to human health?
.....
36. Mention the type of cattle used in by farmers when ploughing land.
.....
37. Why are handles of frying pans made out of dry wood or plastic?
.....
38. Apart from abstinence, name any **one** other natural method of family planning.
.....
39. Give any **one** sign of kwashiorkor in children.
.....
40. State any **one** law governing the production, sale and consumption of alcohol in Uganda.
.....

SECTION B: 60 MARKS
Questions 41 to 55 carry four marks each.

41. a) What type of friction occurs in fluids?

.....

b) Give any **one** way of increasing friction on roads.

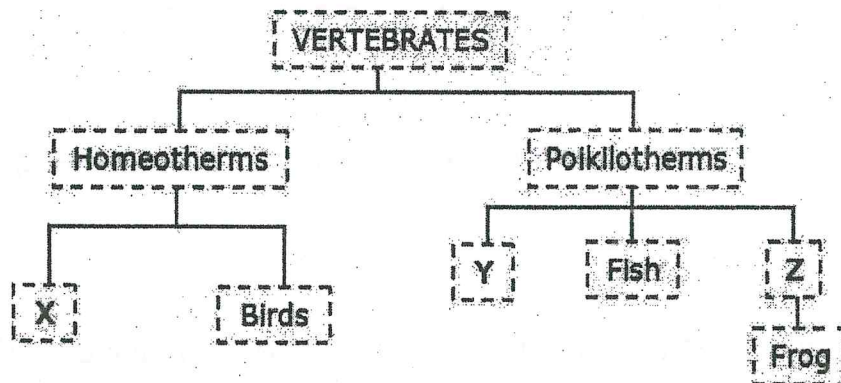
.....

c) List any **two** ways in which friction is applied in daily life.

i)

ii)

42. The flowchart below shows classification of vertebrates. Study carefully and use it to answer the questions that follow.



a) Identify the class of vertebrates at **X**.

.....

b) Apart from frogs, name any **one** other animal that belongs to class of vertebrates marked **Z**.

.....

c) How are the birds in the chart similar to fish in the way they reproduce?

.....

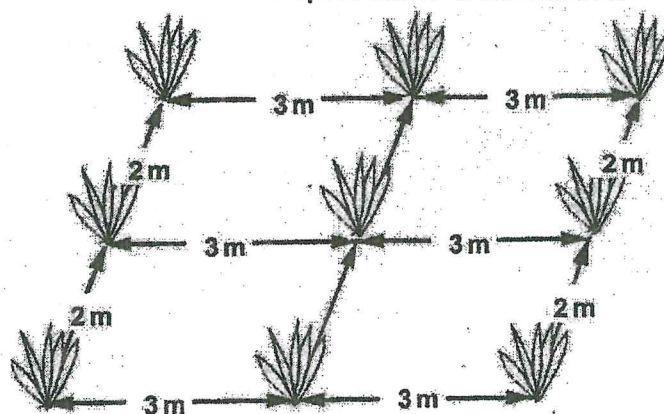
d) Give any **one** way in which animals in group **X** are different from those in group **Y**.

.....

.....

43. a) Why do farmers keep each of the following poultry?
- layers.
 - broilers.
- b) Give any **two** ways a farmer can control diseases in poultry.
-
 -
44. a) Apart from polythene papers, name **two** other examples of soil pollutants.
-
 -
- b) State any **two** ways in which polythene papers are dangerous to soil.
-
 -
45. a) Write any **two** factors which affect the rate of transpiration.
-
 -
- b) Give any **one** way plants reduce the rate of transpiration.
-
- c) State the importance of transpiration to the plants.
-

46. The diagram below shows a method of planting crops in the garden. Study carefully and use it to answer the questions that follow.



(a) Name the method of planting crops shown in the diagram above.

.....

(b) State any **two** advantage of spacing the crops as shown above.

i)

ii)

(c) Name **one** other method of planting crops in the garden.

.....

47. a) State a reason why the elderly people should be fed on foods rich in;

i) Proteins

ii) Vitamins

b) Write down any **two** other ways in which family members can care for the elderly people besides feeding them.

i)

ii)

48. In the table below, list **A** shows groups of simple machines and list **B** shows examples in machines in each group. Study carefully and answer the question that follows.

List A: Simple machines	List B: Examples of machines
Wedges	Ramp and staircase
Levers	Windlass and door knob
Wheels and axles	An axe and a panga
Inclined planes	Claw hammer and bottle opener

For each group of simple machine, select the correct example from list **B** of the table and write it in the space provided below.

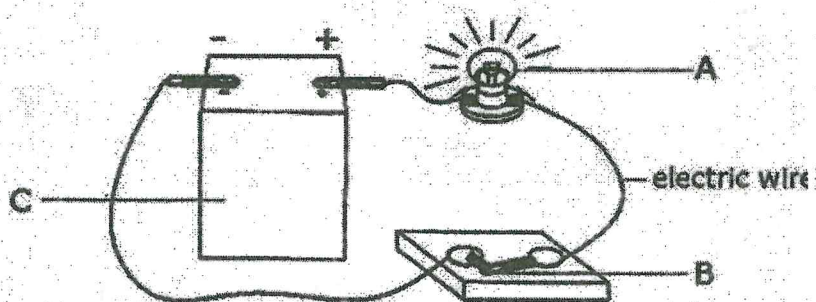
a) Wedges

b) Levers

c) Wheels and axles

d) Inclined planes.....

49. The diagram below is of a simple electric circuit. Study it carefully and answer the questions that follow.



- a) How is part **C** useful in the above circuit?

 b) Give any **one** reason why part **A** may fail to function.

 c) State the energy change which takes place in part **A** when **B** is closed.

 d) Using an arrow, show the direction of the flow of electrons on the electric wire.

50. The table below shows childhood immunisable diseases, vaccines administered and the body site. Study carefully and complete it correctly.

Immunisable Disease	Vaccine administered	Body site
Poliomyelitis	Polio vaccine
.....	BCG vaccine	Right upper arm
Whooping cough	Left upper thigh
Measles	Measles vaccine

51. a) Give the function of the following components of blood in the human body.
 i) Red

ii) blood cells

iii) Blood

iv) platelets

b) Give any **one** disease of the circulatory system that affects the white blood cells.

.....

c) State any **one** activity done to keep the circulatory system in a healthy working condition.

.....

52. a) Apart from sanitation, mention **two** other elements of Primary Health Care (PHC).

i)

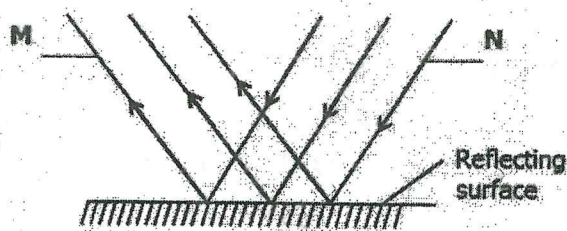
ii)

b) Give any **two** activities a family can do to promote Primary Health Care.

i)

ii)

53. The diagram below shows reflection of light. Study it carefully and answer the questions that follow.



a) What type of reflection is shown in the diagram?

.....

b) Mention **one** object which reflects the light rays as shown above.

.....

c) What name is given to ray of light marked **M** and **N**?

i) **M**

ii) **N**

54. a) List any **two** adaptations of seeds dispersed by wind.

i)

ii)

b) State any **two** advantages of seed dispersal to plants.

i)

ii)

55. a) Mention any **one** endo parasite in goats and sheep.

.....

b) State any **one** way of controlling ecto parasites in goats and sheep without using chemicals.

.....

c) Give any **two** effects of parasites to goats and sheep.

i)

ii)

THE END