



KAMPALA CAPITAL CITY AUTHORITY

DIRECTORATE OF EDUCATION AND SOCIAL SERVICES

PRIMARY SEVEN MOCK EXAMINATIONS 2023

INTEGRATED SCIENCE

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 pencils.
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		

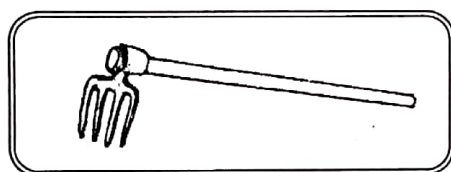
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TURN OVER

SECTION A

1. Name any **one** natural source of heat energy in the environment.
.....
2. State any **one** characteristic of insects.
.....
3. What force enables one to light a match box?
.....
4. How can a dairy farmer detect the presence of mastitis in milk?
.....
.....
5. Why should the legs of fainted person be raised higher than the level of the head?
.....
.....

The diagram below shows a garden tool. Use it to answer question 6.

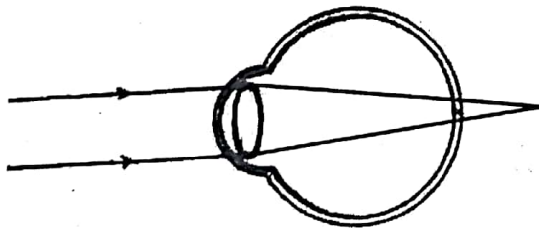


6. How is the above tool useful to a crop farmer?
.....
.....
7. State the function of red blood cells in the body.
.....
8. Find the density of a stone whose mass is **60g** and has a volume of **15cc**.
.....

9. Identify any **one** energy resource obtained from fossil fuels.
.....

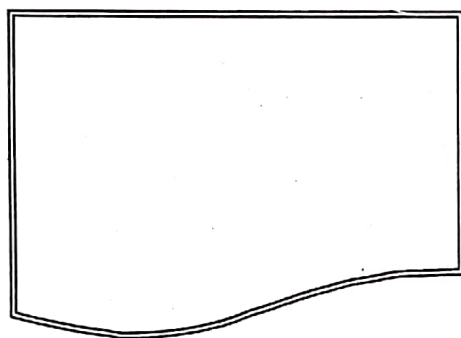
10. Name the part of a fish with a similar function as the human nose.
.....
11. Which type of soil has the highest water drainage?
.....
12. Why is it not wise to put out petrol fire using water?
.....
.....
13. Use the organisms below to make a food chain.
turkey, plant, kite, locust, bacteria
.....
14. Name the weather instrument used to measure the speed of wind.
.....
15. Suggest **one** functional difference between arteries and veins.
.....
.....
16. Why is goitre called a non-communicable disease?
.....
.....
17. How do pawpaw plants avoid self pollination?
.....
.....
18. Give **one** health practice that may control the spread of Ebola in a school.
.....

The diagram below shows an eye defect. Use it to answer question 19.



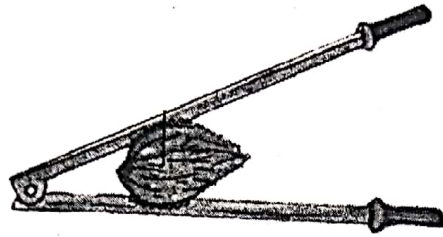
19. Name the type of lens used to correct the above eye defect.
.....
20. Name the immovable joints found in the skull.
.....
21. Name the end product of digestion of proteins.
.....

22. Point out **one** way of administration of vaccines in the human body.
.....
23. What is the importance of nitrogen fixing bacteria?
.....
.....
24. Give any **one** sign of a dehydrated child.
.....
25. State any **one** way of demagnetization.
.....
26. Identify **one** artificial method of vegetative propagation in pineapples.
.....
27. **In the space provided below, draw a trifoliate leaf.**



28. How is the sun important in rain formation?
.....
.....
29. What is the importance of Ammeter in an electric installation?
.....
.....
30. Why do objects weigh less in water than in air?
.....
.....
31. State **one** effect of smoking to an expectant mother.
.....
.....
32. Name any **one** water borne disease caused by virus.
.....

The diagram below shows a simple machine.



33. Use arrows to show the position of the effort.
34. Why do animals move from one place to another?
.....
.....
35. How is an eagle dangerous to Okello who is a poultry farmer?
.....
.....
36. Mention **one** sexual deviation in the community.
.....
37. State any **one** effect of burns and scalds to an individual who may become a victim.
.....
.....
38. Which organism helps in the process of fermentation of glucose to produce alcohol?
.....
39. State the characteristic that takes place in chemical changes of things in the environment.
.....
.....
40. Besides production of ova, mention any other thing produced in the ovaries.
.....

SECTION B

41. a) What is food preservation?

.....
.....

b) Give **two** modern methods of food preservation.

i) ii)

c) How does sun drying preserve sliced cassava?

.....
.....

42. a) State any **one** way heat can affect matter.

.....

b) Identify any **one** source of heat energy.

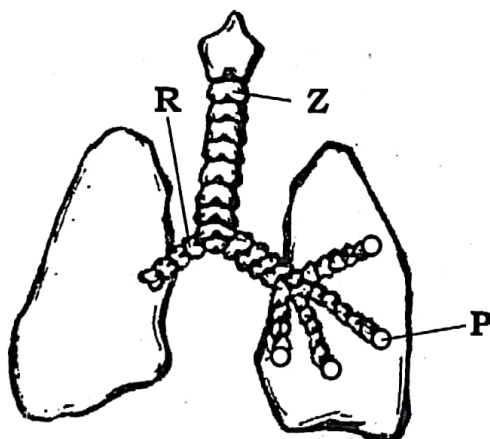
.....

c) How does heat travel through the following;

i) Solids

ii) Gases

43. Study the diagram of the respiratory tract given.



a) Name part **R**.

b) Why is part **Z** made of cartilage of rings?

.....

c) Which process takes place in part **P**?

.....

d) Suggest any **one** bad practice that affects the structure above.

.....

44. a) Give any **one** component of an electric circuit besides the dry cells.

.....

b) Workout the voltage of 4 dry cells in an electric circuit.

c) State the similarity between a switch and a fuse.

d) Give **one** danger of poor wiring or poor electric installation.

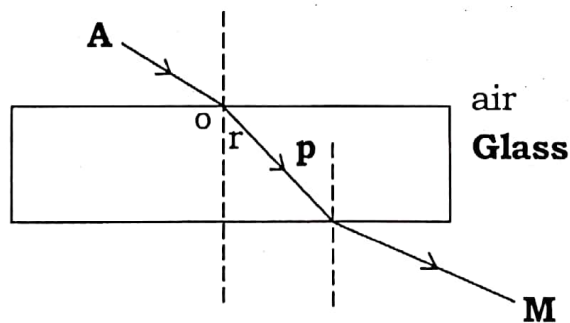
15. a) Why do farmers dock their female sheep?

b) Give any **one** reason why farmers castrate male animals.

c) Mention **one** method used for deworming cattle.

d) How can farmers improve on their local breeds of cattle?

16. Use the diagram below for answering question 46.



a) Name ray **A** and **M**.

i) **A** ii) **M**

b) What is angle **r**?

c) State a reason why ray **P** moves away from the normal.

47. a) What is fainting?

b) State the major cause of fainting in humans.

c) Why is a crowd of people discouraged from a casualty who has fainted?

d) State a reason why a casualty is put in a recovery position.
.....
.....

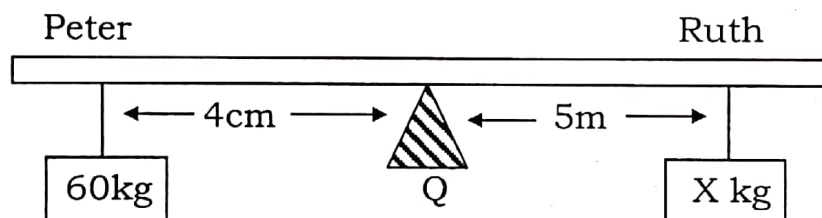
48. a) Give **one** example of a fungal disease apart from ringworms.
.....

b) Mention the fungi used for producing peneciline.
.....

c) How do bacteria reproduce?
.....
.....

d) State **one** condition required for bacteria to reproduce.
.....

49. **Use the given diagram for answering questions that follow.**



a) To which class of levers does the simple machine above belong?
.....

b) Name position Q.

c) What is Ruth's weight if she is to be at balance with Peter? (2marks)

50. a) What is an energy resource?
.....
.....

b) Give any **one** friendly energy resource in the environment that can be used by people other than wood fuel.

c) Give **one** example of solid and liquid fuel.

i) Solid fuel

ii) Liquid fuel

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

b) How does sound travel?

c) Give **one** factor that can effect the pitch of sound.

d) Mention **one** way a musician can store sound for future use.

52. **Match items of group A with those of group B correctly.**

List A

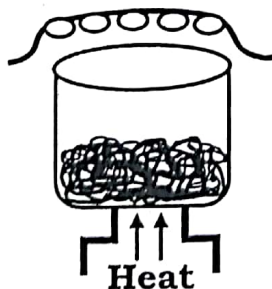
- a) Liver
- b) Kidney
- c) Skin
- d) Lungs

List B

- carbon dioxide
- sweat
- uric acid
- dead red blood cells

- a) Liver
- b) Kidney
- c) Skin
- d) Lung

53. **Use the diagram below for answering questions that follow.**



a) What does the experience above explain about soil?

- b) Give the use of component of soil you have given in Q (53a) to plants.
.....
- c) What does heat in the diagram above represent in the environment?
.....
- d) Give one use of soil to people in the community.
.....
.....
54. a) Where does fertilization take place in female adults?
.....
- b) Give one permanent family planning method in males.
.....
- c) What is the function of seminal vesicle in a male reproductive organ?
.....
.....
- d) How can adolescents care for their reproductive system?
.....
.....
55. a) Give two characteristics of seeds dispersed by animals.
i)
ii)
- b) Suggest one advantage of seed dispersal.
.....
.....
- c) Other than animals mention any other agents of seed dispersal.
.....

*** SUCCESS ****