

THE **JUBRA EDUCATIONAL SERVICES - KAMPALA**
(PRE-PLE SET 1 2023)
INTEGRATED SCIENCE

Time Allowed: 2hours 15minutes

Index No.	Random No.	Personal No.

Candidate's Name.....

Candidate's Signature.....

School Name

District / Municipality.....

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

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. All answers to both section 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.
6. Unnecessary alteration of work may 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

Examiner's use only

FOR EXAMINERS' USE ONLY		
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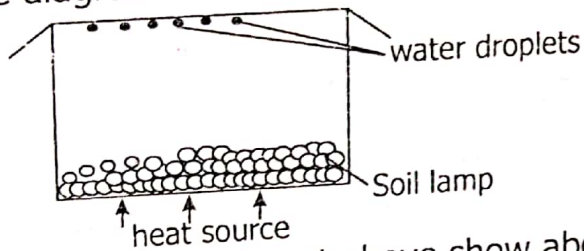
Located at Modern Building Room F4, 1st Floor and Karobwa tower room F2:05
Tel: 0200-909-858 , 0703-192727, 0783-867736

Turn Over

SECTION A: (40marks)

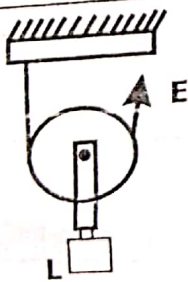
1. Name the domestic animal kept for mohair.
2. Identify one chemical change that occurs in plants.
3. Which weather instrument is used to measure density of liquids.

Use the diagram below to answer question 4 and 5



4. What does the experiment above show about soil?
5. How is the above component of soil important to plants.
6. In which part of an onion is food manufactured?
7. Why is calcium important in the diet of a growing child?

Use the diagram below to answer question 8 and 9



8. Name the pulley system shown above.
9. What is the mechanical advantage of the system above?
10. How is saliva useful in the process of digestion?
11. Name the pigment which determines the colour of the skin.
12. Which element of Primary Health Care helps to control diarrhoeal diseases?
13. Name the body organ that balances the amount of water needed by the body.

14. How is friction reduced in a wheel barrow?

15. Why is cholera regarded as a communicable disease?

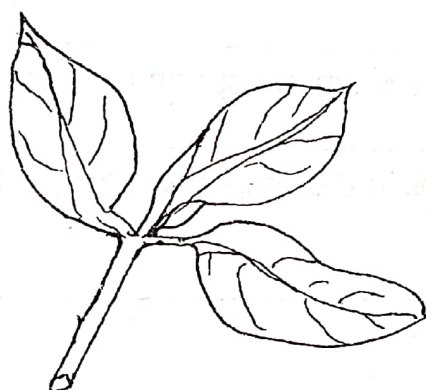
16. What is the use of a strip cup to a dairy farmer?

17. State the main cause of a short circuit.

18. Apart from plant kingdom, give one another kingdom of living things.

19. What name is given to the small piece of land set aside for growing trees.

Below is a type of a compound leaf. Use it to answer the questions 20 and 21



20. Name the type of compound leaf shown above.

21. Identify any one plant with such type of a compound leaf.

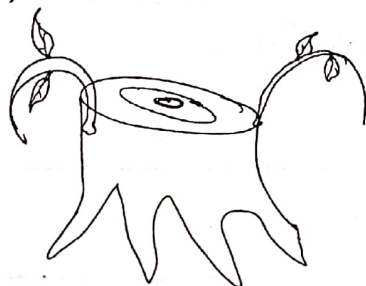
22. State the adaptation of arteries which enables them to withstand high blood pressure.

23. A stone has a mass of 12g and a volume of 6cc.
What is its density?

24. Why is rainfall measured in millimeters?

25. Give any one example of a leguminous weed in the garden.

26. Mention the longest and the hardest bone in the human body.
27. State any one advantage of breast feeding to the mother.
28. Name the cattle management practice which helps to control in breeding on a farm.
29. State one way of caring for the human ear.
30. To which body system do the kidneys belong?
31. Which property of light enables periscopes to operate?
32. Name the form of current electricity produced from burning fuels?
33. Where in the male reproductive system are sperm cells produced?
34. Which sanitary component helps in the proper disposal of human faeces and urine?
35. How does a puff ball reproduce?
36. Name the energy resource obtained from plant remains.
37. State one characteristic of seeds dispersed by water.
38. To which class of levers does a weighing scale belong?
39. Identify the method of harvesting wood illustrated below.



40. How is the eyelid of the human eye similar to the shutter in the lens camera in the way they function?

SECTION B

41. The arrangement of organisms below shows a food chain. Study and use it to answer the questions that follow.



- a) Use arrows to show the flow of energy among the organism.
- b) Which organism is regarded as;
 - i) Producer _____
 - ii) Tertiary consumer _____
- c) How are bacteria important in the food chain?

42. The table below shows groups of animals arranged in sub-groups. Study it carefully and answer the questions that follow.

O	P	Q
Frog	Gabon viper	Seagull
Toad	Chameleon	Geese
Salamander	Gecko	Swan

- a) To which class of vertebrates do animals in group P belong?

- b) Identify the characteristic which is common to all organisms above.

- c) How are organism in group Q different from those in group O in terms of body temperature.

- d) Name one organism which can be put in group Q

43.a) State the difference between hardening off and pricking out.

b) Give any two ways a farmer can harden off his seedlings.

- i) _____
- ii) _____

c) Suggest any one advantage of hardening off seedlings.

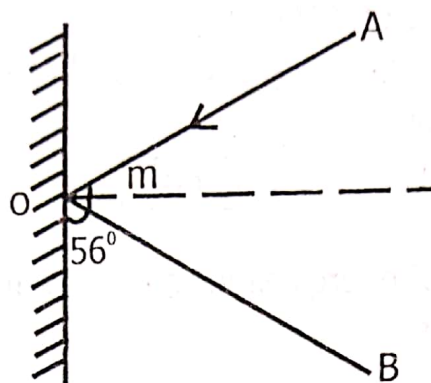
44a) State any two natural factors that leads to environmental degradation.

- i) _____
- ii) _____

b) Identify any two measures taken to control environmental pollution.

- i) _____
- ii) _____

45. The diagram below shows reflection of light. Use it to answer question about it



- a) Name the ray marked;

A O _____

- b) Use the arrow to complete the diagram correctly

- c) Calculate the size of the angle m .

(2marks)

- 46a) What are anti-social behaviours?

- b) Write down any two causes of anti-social behaviours.

i) _____

ii) _____

- c) Which anti-social behaviour is demonstrated by setting fire on the people's property?

- 47a) Name two organisms which reproduce by means of budding.

i) _____ ii) _____

- b) How is a moss similar to a mushroom in terms of reproduction?

- c) How is reproduction useful to organisms in the environment?

- 48a) Which health concern is addressed by the following

i) digging boreholes in the community _____

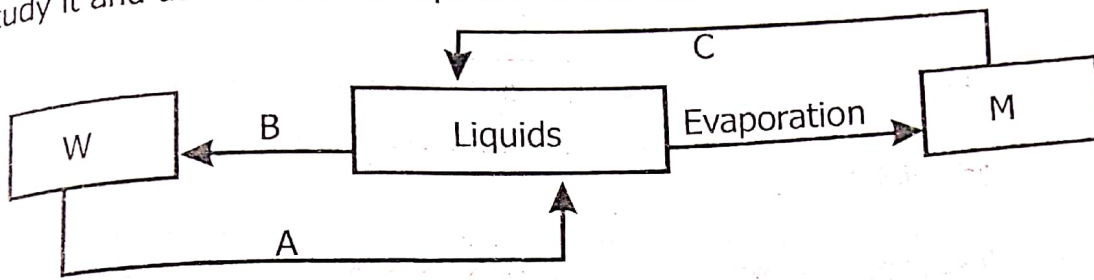
ii) digging rubbish pits _____

- b) Identify any two common causes of disease outbreak in the community.

i) _____

ii) _____

49. The diagram below illustrates the states of matter and their way of changing. Study it and use it to answer questions that follow.



a) Name processes marked;

i) A _____

ii) B _____

b) What name is given to the direct change of gases to solids?

c) State any one effect of heat on matter.

50. a) State any two indicators of poor sanitation in the environment.

i) _____

ii) _____

b) Give any two ways of preventing water borne diseases.

i) _____

ii) _____

51a). Give any one example of each of the following

i) root tubers _____

ii) stem tubers _____

iii) corms _____

b) State the mode of propagation of carrots.

i) _____ ii) _____

52. Match the items in List A to those in List B correctly

A

respiration

Diffusion of gases

Conception

Absorption of food

B

Uterus

Villi

body cells

air sacs

i) respiration

ii) Diffusion of gases

iii) Conception

iv) Absorption of food

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53a) Give any two example of natural fertilizers.

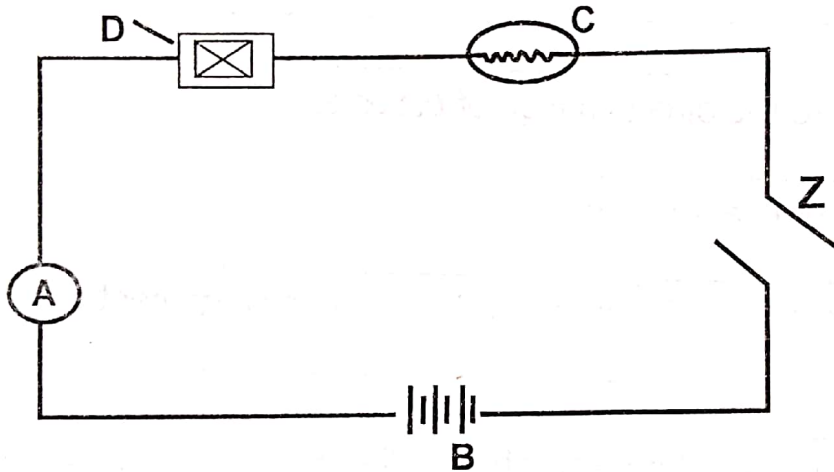
i) _____

ii) _____

b) State one advantage of using natural fertilizer over artificial fertilizers.

c) State one cause of soil infertility.

54. The diagram below is an electric circuit. Use it to the answer the questions that follow.



a) Name the components of an electric circuit marked

i) Z _____ ii) B _____

b) What energy change takes place in part C when Z is closed?

c) Why is part D made of a thin wire?

55a) Name any two agents of seed dispersal.

i) _____

ii) _____

b) How is a black jack fruit adapted to animal dispersal?

c) State one example of a berry.

*****END*****