



THE DESTINY ACADEMIC RESEARCHERS CONSULTANCY- KAMPALA

THE 2024 PLE GENIUS PREPARATION SERIES

INTEGRATED SCIENCE

Index No.	Random No.						Personal No.		

Time allowed: 2hours 15minutes

Candidate's name:

Candidate's signature:

School Random number:

District No.

--	--	--	--

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 printed pages** altogether.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill any thing in the table indicated: **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINER'S USE ONLY

Qn. No.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 50		
51		
52		
53		
54		
55		
TOTAL		

SECTION A: 40 MARKS

Questions 1-40 carry one mark each

1. Name one disease that can be controlled by using enough water to clean our bodies.

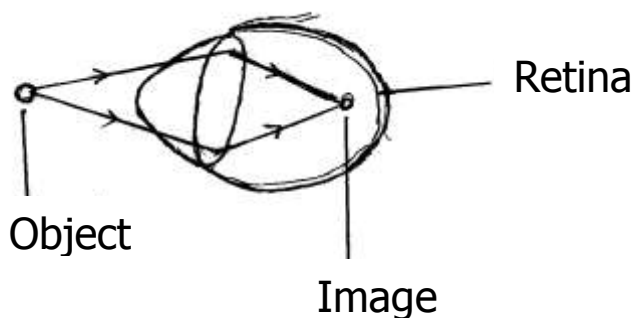
2. Give one characteristic common to all mammals.

3. Write down one effect of HIV/AIDS to a community.

4. State one way prefects at school can help to prevent antisocial behavior at school.

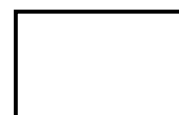
5. Write one source of water pollution in our environment.

The diagram below shows an eye defect. Use it to answer question 6



6. How is the eye defect shown above corrected among people?

7. Mention any one method of harvesting rain water at home.



8. Give one way of preventing cattle disease without using chemicals.

9. State the importance of lightning to the soil.

10. Give one way wood ash can be used to promote hygiene.

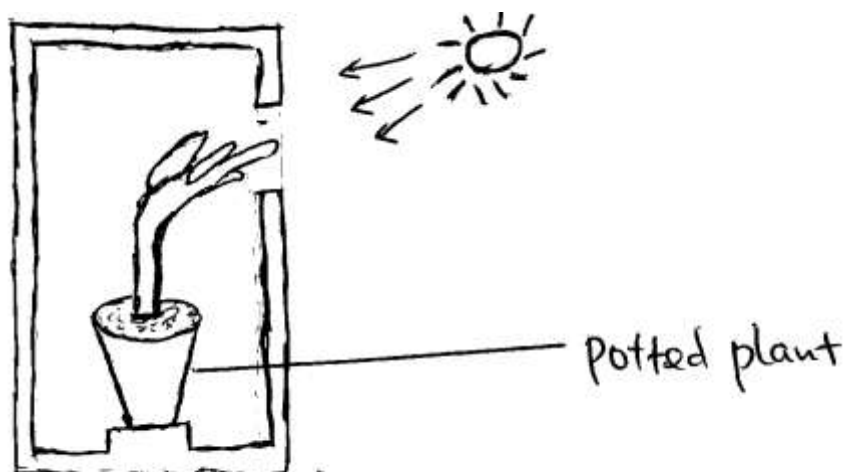
11. Give one material removed out of the body by the skin through sweating.

12. Identify the sense organ snakes use for smelling and touching.

13. Give a reason why very old people should feed on food such as; eggs, fish, beef and milk.

14. What type of pulley is used to hoist flags at school?

The diagram below shows a directional plant growth response to stimuli . Study it to answer question 15



TURN OVER

15. Name the stimuli the plant is responding to.

16. Give one way of removing honey from combs.

17. Identify the sense organ a P.4 pupil will use to tell whether tea is hot or cold.

18. Apart from crop rotation, give any other way the soil can regain its fertility naturally.

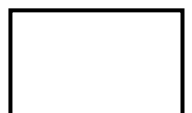
19. Give one way animals are used as energy resources.

20. Give one advantage of keeping exotic goats over local goats

21. Which part on a VIP latrine lets out bad smell?

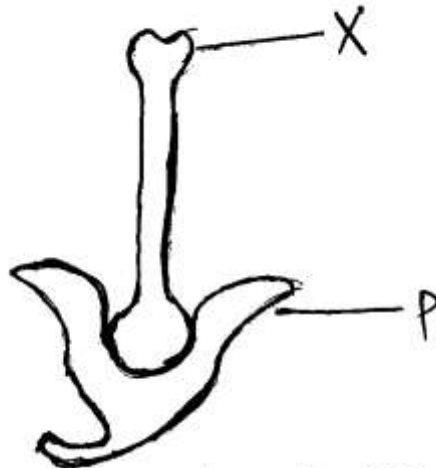
22. Why does water exist in all the three states of matter?

23. Which type of movable joint is formed between the femur and tibia in the body?



24. How does ball bearing reduce friction in the moving parts of a machine?

The diagram below shows part of flower use it to answer 25 and 26



25. Name the part marked X

26. Give one function of part P

27. Why is distilled water not recommended for drinking?

28. Give one factor that determines the appearance of an image formed in a pinhole camera.

29. Write down one method of heat transfer through matter.

30. What form of current electricity is produced by the generator?

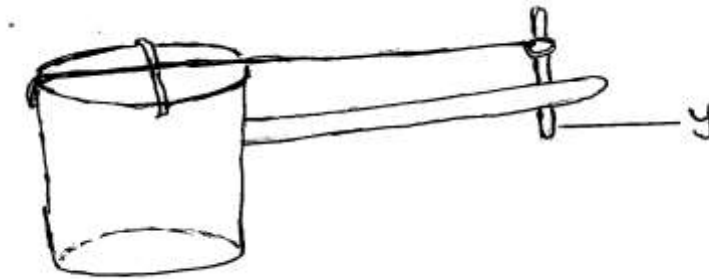


31. Give one example of plants that are usually grafted.

32. What health habit is done to fruits before eating them?

33. Give the importance of the tongue during digestion.

The diagram below shows a musical instrument. Study it and use to answer question 34 and 35

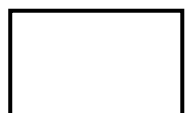


34. Name the string musical instrument above.

35. Give the function of part Y to musicians.

36. Name the STD that causes blindness in babies.

37. In which one way may seed dispersal be a disadvantage to farmers?



38. State any one reason why objects appear by their colour.

39. Apart from splints, mention any one other item used when administering first aid for a fracture.

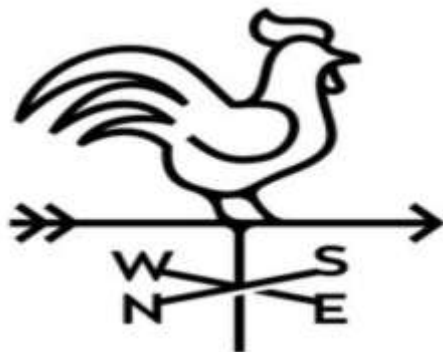
40. Give any one way in which convection is useful in our daily life.



SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

The diagram below shows a weather instrument use it to answer questions about it.



41(a) Name the weather instrument drawn above.

b) To which direction is the wind blowing?

c) What is the function of the above weather instrument?

d) Write down one advantage of windy weather.

42(a) Give one example of each of the following types of changes

i) Physical change _____

ii) Chemical change _____

b) Write down one importance of biological changes in our environment.

c) What chemical process makes tools blunt?



43 (a) State one problem of frequent pregnancies to the mother.

b) Write down one role of a father to a pregnant mother besides providing basic needs.

c) Give one method of birth control that;

(i). delays ovulation

(ii). prevents implantation

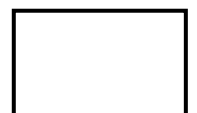
44 (a) Give one method of harvesting crops apart from uprooting.

b) Write down any two crops harvested by uprooting.

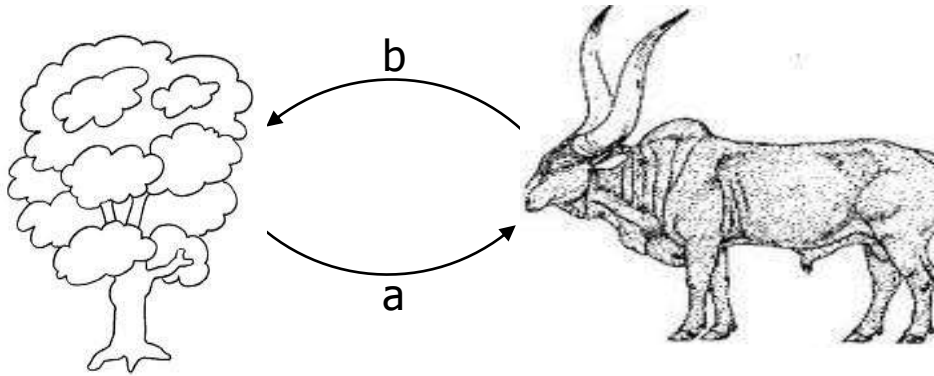
(i).

(ii).

c) Why is harvesting of cereals on a large scale best during the dry season?



The diagram below shows a feeding relationship between a cow and a tree.



45. What term is used to mean the above feeding relationship?

b) Name the gases represented by the arrows marked

(i) a

(ii) b

c) Give the role played by plants in food chain.

46. What health problem can result from shock or prolonged hunger?

b) State the first aid for near drowning.

c) Write down two safety measures to prevent near drowning.

(i).

(ii).

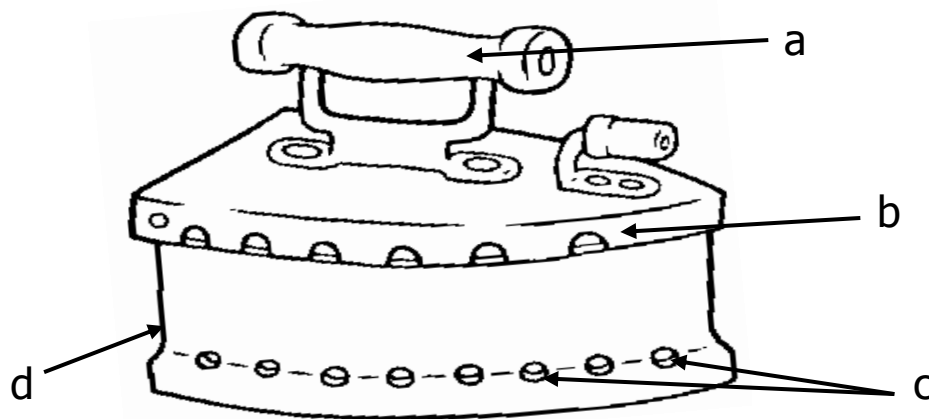


47. (a) What element of Primary Health Care is promoted by;
- (i). Picking rubbish on the school compound
- (ii). Having enough food at home to eat from time to time

b) Give two ways health education is passed to people.

- (i). _____
- (ii). _____

The diagram below shows an item used at home.
Study it carefully to answer question 48



48. Name part marked a

b) Give the function of holes marked b

c) How are the holes marked c similar to the windows on a house in terms of function?

d) Why is part d made of a metal?



49. (a) Give the functions of the following digestive organs

(i). Gall bladder

(ii). Ileum

(b) State one way of keeping the digestive system in good working condition.

(c) What is the role of enzymes as catalysts in the digestive system?

50. Use the table below to answer question 50

A	B	C	D
Posho	Mushroom	Cabbage	Carrots

a) Identify the source of;

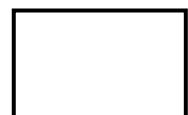
i) Mineral salts _____

ii) Carbohydrates _____

b) What food deficiency disease can be prevented by feeding on food stuff D?

c) What food value is obtained from eating food stuff D?

51. (a) What is meant by the term "self-pollination"?



(b). Give any two agents of pollination.

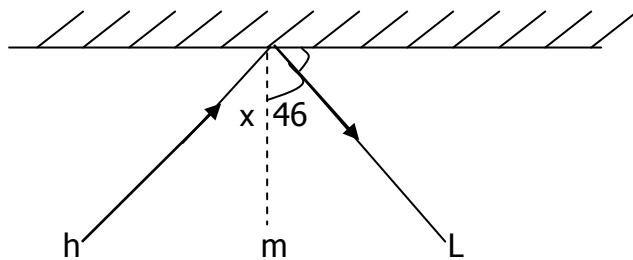
(i). _____

(ii). _____

(c). What happens to the ovary of a flower after fertilization?

52. The diagram below shows reflection on a plane mirror.

Study it to answer question 52.



(a). Name the type of reflection shown above.

(b). Name the parts marked h and m

h. _____

m. _____

(c). What is the size of angle x?

(d). What type of reflection is shown in the diagram above?

53 a). Name the human body organ responsible for body balancing.



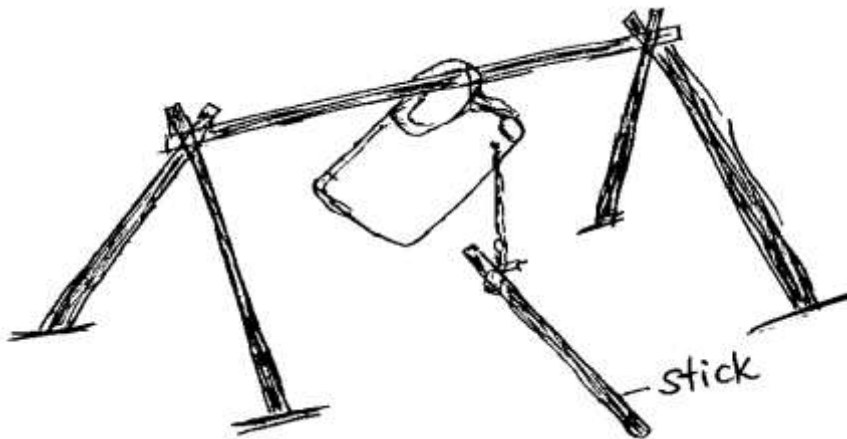
b). Why does blood go to the kidneys?

c). State any two habits that can damage the efficiency of the respiratory system.

(i). _____

(ii). _____

54. The diagram below shows a hand washing facility. Use it to answer questions that follow.



a) Name the hand washing facility above.

b) State the use of the stick while washing the hands.

c) Why is the above facility common in village areas?

d) Mention any one material used to make the above facility.



55. The sentences below show the steps taken to recover salt that poured in sand but in a jumbled order. Rearrange them correctly.

- a) Filter the mixture to remove sand.
- b) Collect the mixture of sand and salt and put into a container.
- c) Boil the mixture until it dries.
- d) Add water to the container and stir well.

Correct order.

- i)
- ii)
- iii).....
- iv).....

END

