

MPIGI DISTRICT ACADEMIC BOARD

PRE - PLE EXAMINATIONS 2023

INTEGRATED SCIENCE PRIMARY SEVEN

Time Allowed: 2 Hours 15 Minutes

Index No.					Personal No.		

Pupil's Name: _____

Pupil's Signature: _____

School Name: _____

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections: A & 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 & B
5. All answers must be written in the spaces provided in BLUE or BLACK ink. Only diagrams should be drawn in pencil.
6. Unnecessary crossing of work will lead to loss of marks.
7. Poor handwriting, which cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes shown.

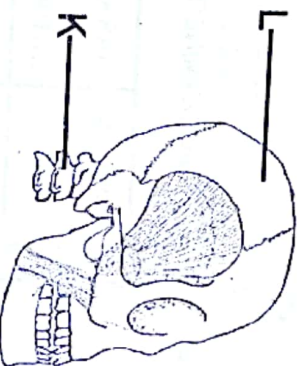
FOR EXAMINER'S USE ONLY

PAGES.	MARKS INITIALS	EXAMINER'S
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION: A

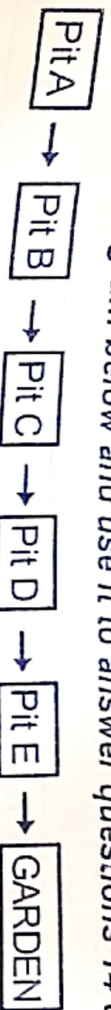
1. Name one component of air.
2. To which class of levers does a cart belong?
3. Mention the garden tool used to trim hedges on a farm.
4. How is a kink important on a clinical thermometer?
5. Apart from prop roots, give any other roots that give extra support to a plant.
6. How are the blood cells adapted to their function?
7. To which group of vertebrates do caecilians belong?

Use the diagram below to answer questions 8 and 9.



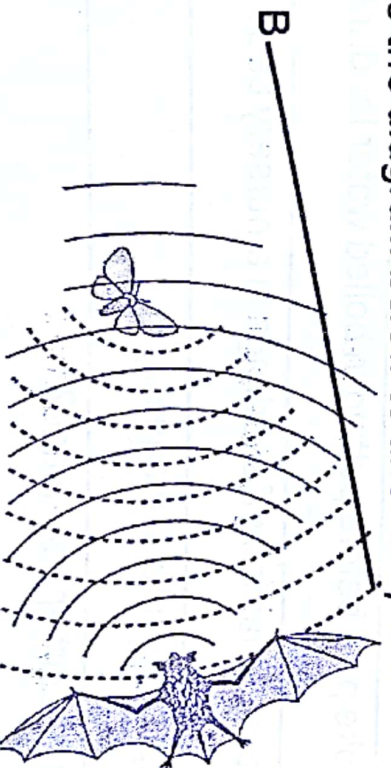
8. Name the type of movable joint found at K.
9. State the bony organ protected by L.
10. What term is used to mean the transfer of pollen grains from the anther to the stigma?
11. Why are right cardiac muscles of the heart thin walled?
12. How is melanin important to human beings?
13. Mention the body organ that produces insulin.

Study the diagram below and use it to answer questions 14 and 15.



14. Give the reason why manure is put in pits A to E before taking it to the garden
15. Apart from compost manure, mention one other natural fertilizer.
16. Mention the importance of the sun in a food chain.
17. State the weather instrument used to measure the amount of rainfall received in an area.
18. Name one way heat travels through matter.
19. Why is respiration called a chemical change?
20. Give one importance of yeast to people.
21. Identify the element of Primary Health Care that helps to make joints flexible
22. State the importance of a switch in a circuit.
23. How do some plants reduce the rate of transpiration?

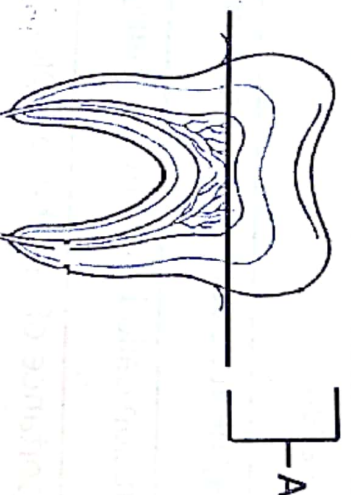
Use the diagram below to answer questions 24 and 25.



24. Name sound B.
25. Which part of the mammalian ear amplifies sound?

26. How does a caterpillar protect itself? _____
27. State one law of reflection. _____
28. Mention the vitamin deficiency that causes sterility especially in women. _____
29. Give one advantage of keeping local breeds of poultry to exotic breeds. _____
30. Name the body organ that excretes dead bile pigment. _____

The diagram below is of a mammalian tooth, study it and answer questions 31 and 32.



31. Name the region marked A. _____
32. How is the above tooth adapted to its function? _____
33. Why are testes left hanging in the scrotum outside the body of males? _____
34. Give one example of an anti-social behavior. _____
35. Why do we smoke pots before putting in boiled water for drinking? _____
36. How is it important to harden off seedlings in a nursery bed? _____
37. Give one example of a natural magnet. _____
38. Why does a black shirt appear black? _____
39. Mention one example of a corm. _____
40. To which group of machines does a ramp belong? _____

SECTION: B

41a) How are the following important to a Ventilated improved Pit - Latrine.

i) spiral wall

ii) vent pipe

b) Why do we smoke a co-pit of a conventional latrine.

c) Mention one importance of proper sanitation.

42a) Name the part of a camera where the image is formed.

b) State the type of lens used in a camera.

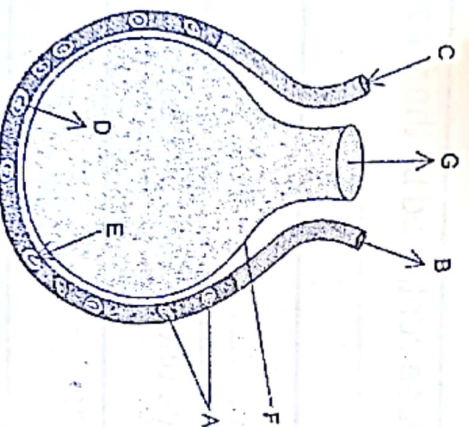
c) Give two other optical instruments.

i)

ii)

43.

Study the diagram below and use it to answer the questions that follow.



a) Name the gases diffused at.

i) D

ii) E

b) Why does the percentage of oxygen decrease as we exhale?

c) Give one adaptation of part F to their function.

44a) Why do objects weigh less when placed in water?

b) State two advantages of friction to people.

i)

ii)

- c) Name any one form of energy.

45a) How does a lightning conductor protect buildings from lightning?

- b) Apart from using lightning conductors, mention two other ways we can protect ourselves from lightning.

- i) _____
ii) _____
c) Give one importance of lightning.

46a) Mention two adaptations of swimming birds to their way of living.

- i) _____
ii) _____
b) Give two examples of swimming birds.

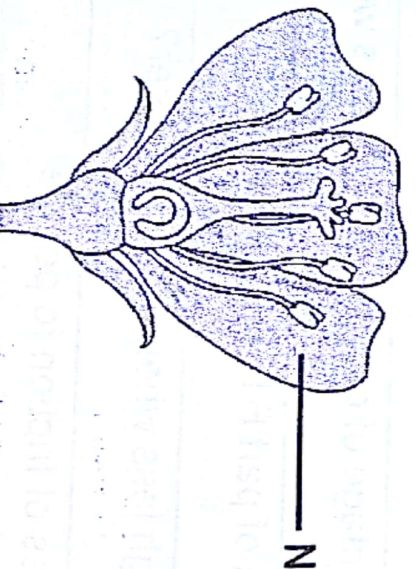
- i) _____
ii) _____
47a) Name the immunisable disease controlled by the following vaccines.
i) HPV vaccine

- ii) MMR vaccine

- b) Apart from immunization, give one other way the body gets immunity.

- c) State any one type of vaccine.

48. The diagram below is of flower. Study it carefully and use it to answer the questions that follow.



- a) On the above diagram, use an arrow and letter M to show the calyx.

b) Name the type of pollination the above flower undergoes.

c) Where does fertilization take place in flower?

d) What happens to part marked N after pollination and fertilization?

49a) Give the importance of the following bees in hive.

i) drone bee

ii) worker bee

b) How is a smoker important during harvesting honey?

c) Mention one way we can prevent swarming.

50. Match the diseases in A with their germs in B.

A	B
Scabies	Yersinia pestis.
Typhus fever	Virus
Bubonic plague	Sarcoptes scabiei
Polio	Rickettsia

a) Scabies

b) Typhus fever

c) Bubonic plague

d) Polio

51a) What is obesity?

b) State two ways we can prevent obesity.

i) _____

ii) _____

c) Give one importance of fats in the body.

52a) What is an alloy?

b) Give one example of a non-renewable resource.

c) Apart from making alloys, state two other ways of conserving non-renewable resources

i) _____
ii) _____

53a) In which units is weight measured?

b) Name the instrument used to measure the density of liquids.

c) Give two differences between mass and weight.

i) _____
ii) _____

54a) What term is used to mean the cutting down of selected trees while others are left to grow?

b) Give two methods used when harvesting trees.

i) _____
ii) _____

c) State one method of controlling weeds in a garden.

55a) Name one effect of taking methyl alcohol.

b) State two reasons why you would advise your friend not to take alcohol.

i) _____
ii) _____

c) Mention one medical use of alcohol.

