THE REPUBLIC OF UGANDA

MASINDI MUNICIPAL COUNCIL ACADEMIC BOARD

PRE - MOCK EXAMINATION, 2023

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index Number: | | | | | | | | | | |

Candidate 's Name: .....

Candidate 's Signature: .....

School Name: .....

District Name: .....

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

Read the following instructions carefully:

1. This paper has two sections: A and B
2. Section A has 40 questions (40marks)
   Section B has 15 questions (60marks)
3. Answer all questions. All answers to both sections A and B must be written in the spaces provided.
4. All answers must be written using a blue or black ball-point pen or fountain pen. Diagrams should be drawn in pencil
5. Unnecessary changes of work may lead to loss of marks
6. Any handwriting that cannot easily be read may lead to loss of marks
7. Do not fill anything in the boxes indicated *For Examiners ' Use only * and those inside the question paper

FOR EXAMINER'S USE ONLY		
Qn No	Marks	Exrs No
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
Total		

SECTION A(40marks)

Questions 1 to 40 carry one mark each.

1. Mention any one element of a clean home.

_____

2. How do mulches contribute to the formation of soil?

_____

3. State any one way of protecting water sources from pollution.

_____

4. **The diagram below is of a light ray, use the letters given to determine the sources of light.**

a ←——— b

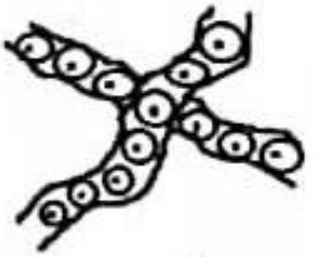
At what point is light coming from?

_____

5. Lutwetwe's body temperature was measured and it was 39.2°C. What first aid would you recommend for him?

_____

Below is a spawn of amphibians, use it to answer questions 6 and 7.



6. Identify the amphibian that lays eggs shown in the diagram above.

_____

7. What type of fertilization does the above organism undergo?

_____

8. In which way are the villi adapted to the absorption of food?

_____

9. Give the difference between the function of a ligament and that of a tendon.

_____

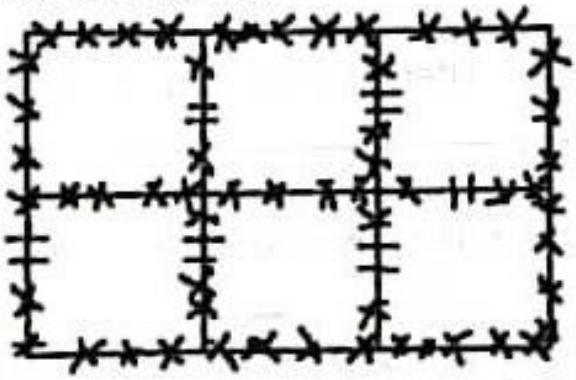
10. How is the reproduction in fish similar to that in mammals?

11. Give any one digestive gland.

12. Write down any one activity that members in a science health club can do to conserve the environment.

13. State any one use of electromagnets to people.

The diagram below shows a system of grazing cattle. Use it to answer questions 14 and 15.



14. Name the system of grazing cattle shown in the diagram above.

15. Besides restricting the animals, give one other advantage of grazing cattle using the above system.

16. Name the part at the joint that prevents the bones from rubbing each other.

17. How would you lift a hot pan from fire without being burnt?

18. What scientific name is given to the artificial provision of immunity to people?

19. State any one function of the liver in the body.

20. Define the term puberty.

21. How can the effect of fast flowing water be managed in the school compound?

Wambeba was given this drug to treat malaria this year.

22. Why would you advise wambeba not to take the drug?

23. How is drug misuse different from drug abuse?

24. Mention any one activity that needs the use of garden tools.

25. What advise would you give to your neighbor whose child has bleeding gums, wounds do not easily heal and feels weak?

26. How is the ear drum adapted to its functions?

27. Name one material used to promote personal hygiene.

28. Name the type of latrine that separates faeces from urine.

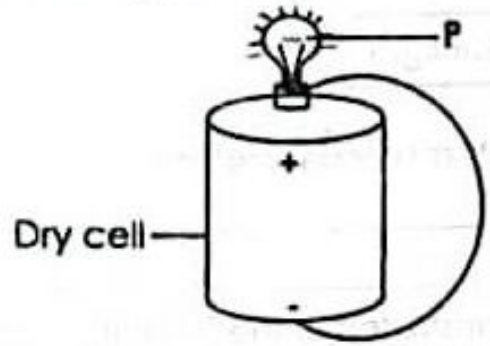
29. Pure or distilled water is not good for drinking yet it is safe. Give a reason why.

30. Identify the percentage of the part of air used in germination.

31. Mention one effect of accidents to people.

32. State any one condition in which your fingernails can become a health problem.

The diagram below shows a simple electric circuit. Study and use it to answer questions 33 and 34.

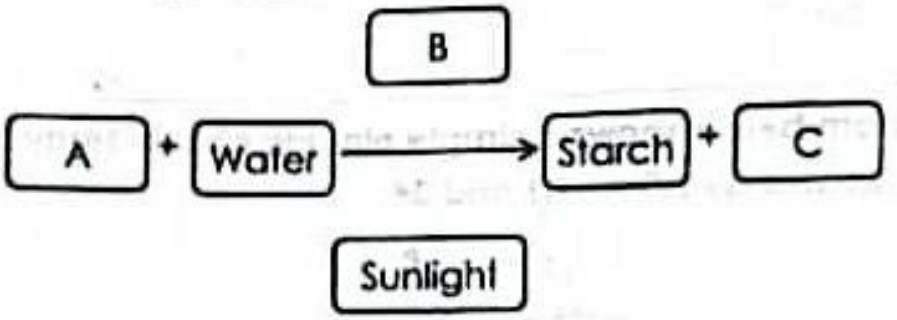


33. Use an arrow to show the flow of current in the diagram above.
34. Give any one energy change that takes place in P.
35. In which way is moulting important to an insect?
36. Which part of the tooth contains blood vessels and nerve endings?
37. State any one method of making alcohol.
38. Write down one natural cause of environmental degradation.
39. Which intestinal worm causes itching at the anus?
40. In the space below, draw the blood component that can be affected by HIV.

SECTION B(60marks)

Questions 41 to 55carry four marks each.

41.



a). Name the components marked by letters;

(i). **A:** _____

(ii). **B:** _____

b). Which process is demonstrated in the illustration above?

_____

c). State one way in which component **C** is useful to animals.

_____

42.a). Name the main vein in the human body.

_____

b). Name the type of blood that is transported by the pulmonary artery.

_____

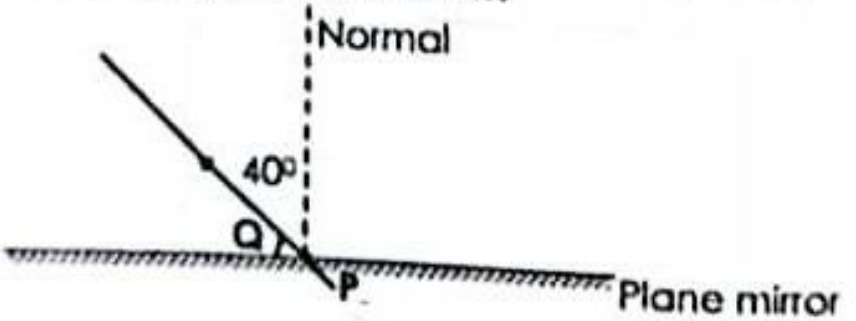
c). State the characteristic of arteries that enables them to transport blood at a high pressure.

_____

d). Which blood vessels aid the exchange of materials in the body?

_____

43. **The diagram below shows reflection of light on a plane mirror. Use it to answer questions that follow.**



a). Name point P.

b). Find the glancing angle Q. *(2marks)*

c): Complete the diagram above.

44.a) What are renewable resources?

b). Point out any two examples of non living renewable resources.

(i).

(ii).

c). How can non renewable resources be conserved?

45.a). Write down any two diseases associated with drinking contaminated water.

(i).

(ii).

b). Give any one method of preparing clean water for drinking.

c). How can water-vector diseases be controlled?

46.a). What is a skeleton?

b). Name two examples of long bones in the human skeleton.

(i).

(ii).

c). Why are triceps and biceps called antagonistic muscles?

47.a). Name any one habitat of wild animals.

_____

b). Give any one example of edible birds.

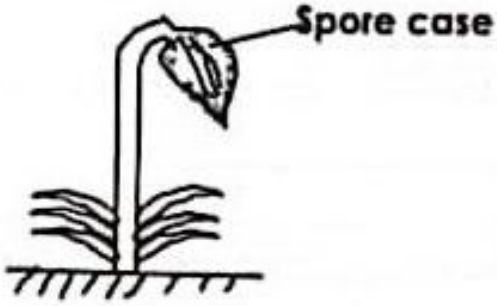
_____

c). Mention two ways of caring for wild animals.

(i). _____

(ii). _____

48. **The diagram below is of a non flowering plants. Use it to answer questions that follow.**



a). Identify the non flowering plant above.

_____

b). How does the above plant reproduce?

_____

c). Which other plants can be grouped together with the above plant?

(i). _____

(ii). _____

49. Give the brief notes on each of the following terms as used in sound;

(i). Frequency:

_____

_____

(ii). Volume:

_____

_____

(iii). Pitch:

(iv). Vibration:

50.a). How are the following twins formed?

(i). Identical twins:

(ii). Fraternal twins:

b). Identify any two disorders of the reproductive system.

(i).

(ii).

51.a). How does a crop farmer benefit from a nearby apiary?

b). Which type of bees are commonly seen on flowers?

c). Why does a bee usually die shortly after stinging a person?

d). Name the type of flight during which a queen bee mates.

52.a). Name the pigment that determine the skin colour.

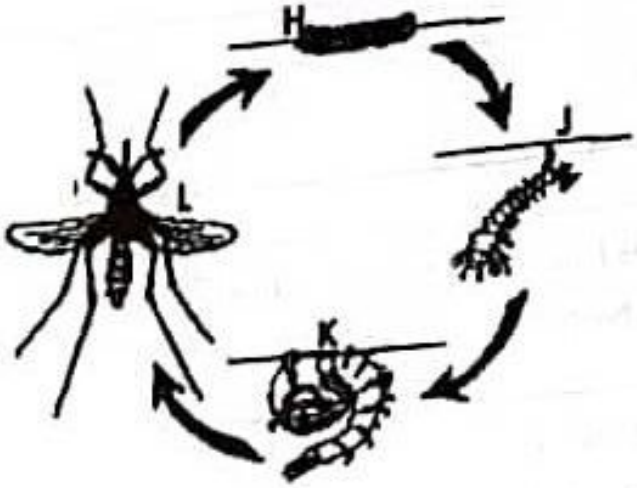
b). State the function of the following parts of the skin.

(i). Sweat glands:

(ii). Pores:

c). How can a P.7 pupil care for his / her skin?

53. **Below is a diagram showing a lifecycle of a mosquito. Use it to answer questions that follow.**



a). Identify the type of mosquito whose life cycle is shown in the diagram above.

_____

b). Name the stage labelled **K**.

_____

c). How is the movement of **J** different from **L**?

_____

d). In which environment is stage **H, J** and **K**?

_____

54. **Use the organisms given below to answer questions that follow;**

Goats, Maize, Lion, Bacteria

a). Use the list of organisms above to construct a food chain.

b). From the above food chain name:

(i). The producer:_____

(ii). The decomposer:_____

c). What would happen to goats if all lions died according to the food chain above?

_____

55. **Study the table below and fill in the gaps.**

Immunisable diseases	Site	Vaccine
.....	Left upper thigh	Hep B
Diphtheria	.....	DPT
Tuberculosis	Right upper arm	.....
.....	Left upper thigh	Hib vaccine

End Good Luck & Success