

**MAYUGE DISTRICT EXAMINATIONS BOARD**  
**PRIMARY LEAVING MOCK, 2023**  
**INTEGRATED SCIENCE**

*Time Allowed: 2 hours 15 minutes*

	Random No.					Personal No.		
Index No.								

Candidate's Name: .....

Candidate's Signature: .....

District ID No: 

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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 **8 printed pages** altogether.
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 ink. Any work written 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 anything in the table indicated: "**For Examiners' Use Only**" and boxes inside the question paper.

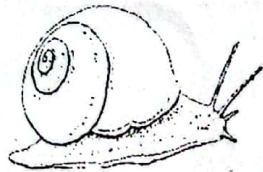
FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXR'S NO.
1- 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the process through which soil is formed from dead organisms.  
.....
2. Give one sign of indigestion in the human body.  
.....
3. What is the danger of walking in wet places with bare feet?  
.....
4. How is a bat able to locate food at night?  
.....
5. State the role of foliage leaves to an onion plant.  
.....
6. Give one way human beings manage rainy weather in the environment.  
.....
7. Write down one safety measure of reducing accidents at home.  
.....
8. Why is honey harvesting recommended to be carried out in the late evening?  
.....
9. Name the force of attraction which holds molecules of solid matter tightly together.  
.....
10. Give one benefit of planting trees in an environment.  
.....

The diagram below shows a disease vector. *Study and use it to answer questions 11 and 12.*

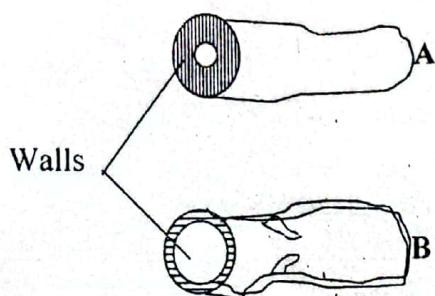


11. Name the disease vector shown in the diagram above.  
.....
12. Which disease is spread by the vector named in (11) above to human beings?  
.....
13. Where do rats live?  
.....
14. Why is freezing referred to as a physical change?  
.....
15. How does a stone differ from a plant leaf in their behaviour when put in water?  
.....



16. State the use of the suction pads to a gecko.  
.....
17. Why do poultry farmers in rural areas commonly use free range system?  
.....
18. Which property of air lets acaricides out of the pump when spraying?  
.....
19. Give a reason why proteins are referred to as body building foods.  
.....

The diagrams below show blood vessels. *Study and use them to answer questions 20 and 21.*



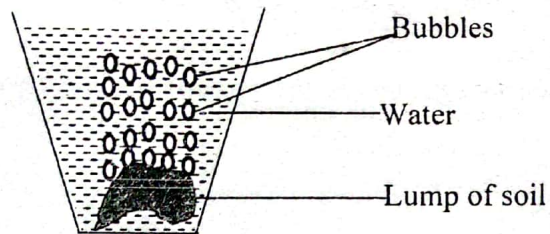
20. Name the blood vessel marked B.  
.....
21. Why is vessel A made of thick walls?  
.....
22. Give one importance of proper posture to the human body.  
.....
23. State the benefit of regular smoking of latrines.  
.....
24. Name the structure where a tortoise hides itself when threatened.  
.....
25. Give one use of electricity in a home.  
.....
26. Why are bananas called perennial crops?  
.....
27. Which immunisable disease is prevented by using DPT vaccine?  
.....
28. What is the role of the wire mesh on a rabbit hutch?  
.....
29. Which element of Primary Health Care (PHC) is promoted by boiling water for drinking?  
.....



30. How are weather records important to farmers?

31. Give one function of the brain to the human body.

The diagram below shows an experiment about soil. *Study and use it to answer question Nos. 32 and 33.*



32. What do the bubbles show in the experiment above?

33. Which component the soil is experimented in the diagram above?

34. What happens when light rays fall on a rough surface?

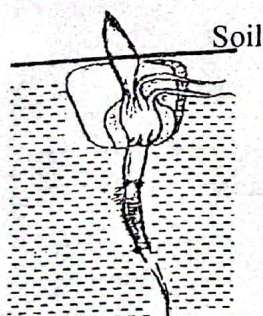
35. Why should pregnant mothers be given plenty of fluids?

36. Give one way of preventing ring worm infection among human beings.

37. Name the dairy breed of goats which produce the highest amount of milk.

38. Why is the squat hole of a VIP latrine left open?

The diagram below shows a germinating seed. *Study and use it to answer question Nos. 39 and 40.*



39. Name the type of germination shown in the diagram above.

40. Which type of seeds undergo the type of germination named in (39) above?



**SECTION B: 60 MARKS**

*(Questions 41 to 55 carry four marks each.)*

41. (a) Name the act of drawing smoke from burning tobacco.

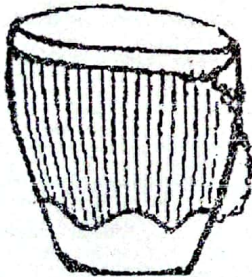
(b) Why do smokers put fire on cigarettes before smoking?

(c) Give two reasons for smoking in human beings.

(i).....

(ii).....

The diagrams below show musical instruments. *Study and use them to answer questions that follow.*



42. (a) Which instrument produces sound with the highest pitch?

(b) Why do the instruments shown above produce sound with different pitch?

(c) Give two factors which determine the pitch of sound.

(i).....

(ii).....

43. (a) Give two natural processes which increase the amount of carbon dioxide in the atmosphere.

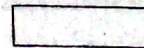
(i).....

(ii).....

(b) Which part of air do plants use to make;

(i) Starch?

(ii) Proteins?



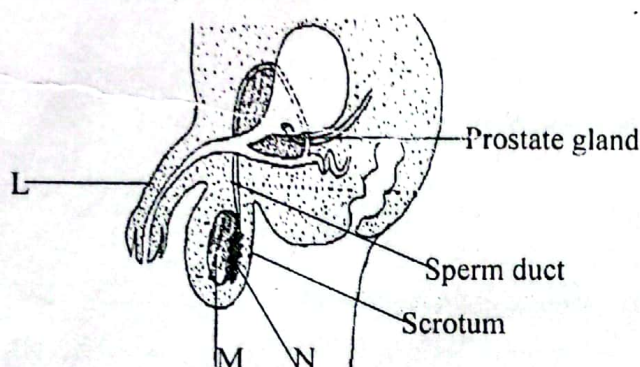
44. (a) Name the type of burns which lead to the formation of blisters on the skin.

(b) Why is it not advisable to burst the blisters incase of burns?



- (c) State the recommended first aid for burns.  
 .....  
 (d) Give one cause of burns to the human body.  
 .....  
 45. (a) Name the structure which produces and stores seeds in pine plants.  
 .....  
 (b) How are pine plants different from ferns in their way of reproduction?  
 .....  
 (c) Give two plants which reproduce in the same way as pines.  
 (i).....  
 (ii).....

The diagram below shows essential male sex organs. *Study and use it to answer questions that follow.*



46. (a) Name the parts marked;  
 (i) M .....  
 (ii) N .....  
 (b) Give the function of the following parts in reproduction;  
 (i) L .....  
 (ii) Scrotum .....

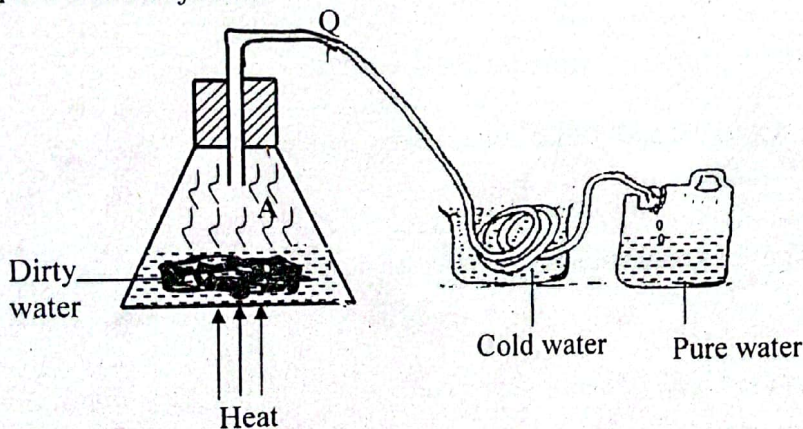
47. The table below shows food nutrients, deficiency diseases and signs and symptoms. *Fill in the missing information.*

Nutrient (s)	Deficiency disease (s)	Signs and symptoms
Vitamin C	(i).....	Poor healing of wounds
Vitamin A	Night blindness	(ii).....
(iii).....	Kwashiorkor	Little brown hair on the head
Carbohydrates	(iv).....	Bright eyes



18. (a) Why are ticks called parasites in farm animals?  
 .....  
 (b) How do ticks spread diseases in cattle?  
 .....  
 (c) Give two diseases spread by ticks among cattle.  
 (i).....  
 (ii).....
19. (a) Which component of environment provide solar energy?  
 .....  
 (b) Why are solar panels painted black?  
 .....  
 (c) Give the role of the following when harvesting solar energy.  
 (i) Solar panel.  
 .....  
 (ii) Solar battery.  
 .....

The diagram below shows a method of making water clean. *Study and use it to answer questions that follow.*



50. (a) Name the part marked Q in the diagram above.  
 .....  
 (b) Which method of making water clean is shown in the diagram above?  
 .....  
 (c) Give the role of cold water in the above process.  
 .....  
 (d) Why is water prepared using the method above not good for drinking?  
 .....
51. (a) Give two useful insects in the environment.  
 (i).....  
 (ii).....  
 (b) Write down two uses of insects in the environment.  
 (i).....  
 (ii).....



52. (a) Which type of energy is possessed by a rolling stone?  
 .....  
 (b) State the energy change which occurs when a rolling stone comes to rest.  
 .....  
 (c) Give two forms of energy in the environment.  
 (i).....  
 (ii).....

53. Match items in A with those in B about prevention of malaria.

	A	B
(i)	Clearing bushes	Protect the human body against mosquito bites
(ii)	Mosquito nets	Fish eat mosquito larvae
(iii)	Spraying	Destroys hiding places for mosquitoes
(iv)	Rearing fish	Kills adult mosquitoes

- (i) Clearing bushes .....  
 (ii) Mosquito nets .....  
 (iii) Spraying .....  
 (iv) Rearing fish .....  
 54. (a) Give two types of sexual changes which occur among adolescents.  
 (i).....  
 (ii).....  
 (b) Write down two signs of sexual maturity in adolescent girls.  
 (i).....  
 (ii).....

The diagram below shows the beak of a bird. *Study and use it to answer questions that follow.*



55. (a) Name the group of birds with the beak shown in the diagram above.  
 .....  
 (b) What type of food do the birds named in (a) above feed on?  
 .....  
 (c) Give two birds with the beak shown in the diagram above.  
 (i).....  
 (ii).....

END