

# KAMULI MUNICIPALITY SCHOOLS

## PRIMARY LEAVING MOCK EXAMINATION

2023

### INTEGRATED SCIENCE

**Time Allowed: 2 hours 15 minutes**

Random No.

Personal No.

Candidate's Name: .....

Candidate's Signature: .....

District ID No.

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Read the following instructions carefully.

1. This paper is made up of two Sections A and B.
2. Answers to both sections must be written in the spaces provided in full sentences.
3. Section A has 40 questions (40 marks).
4. Section B has 15 questions (15 marks).
5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will NOT be marked.
7. Crossing out of answers will lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINER'S USE  
ONLY

QNS. NO. MARK INITIALS

1 - 10

11 - 20

21 - 30

31 - 40

41 - 43

44 - 46

47 - 49

50 - 52

53 - 55

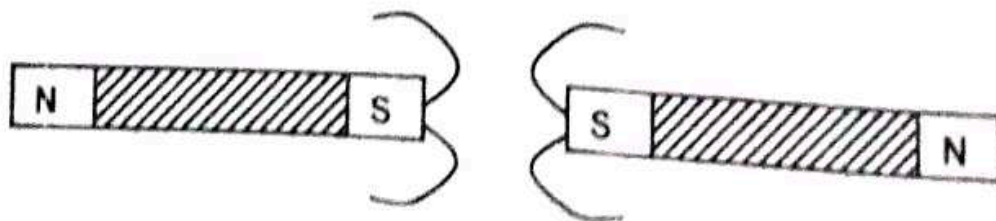
TOTAL

TECNO

POP

1. Give one example of a leguminous plant
2. Name the vaccine given to babies orally at birth
3. Give any one way of conserving non-renewable resources in the environment
4. Name one example of crops propagated by use of suckers
5. In the space provided below, draw a diverging beam of light
6. Name the reptile that protects itself by changing its colours
7. State the reason why tyres of bicycles and vehicles have treads
8. State one importance of counseling an AIDS patient
9. Which type of skeleton is possessed by a snake?
10. Name the blood component which is affected by the HIV
11. In which way is the breathing of a tick different from that of a spider yet both are arachnids?
12. What is agro-forestry?
13. Give any one reason why toothpaste is used when brushing teeth

*Below is a diagram showing two magnets brought closer. Use it to answer questions 14 and 15.*



14. What property of magnets will the two magnets show?

15. Put arrow heads to complete the diagram to suit the property mentioned above



16. Which part of the fish is compared to steering wheels of vehicles?
17. How are bacteria useful to a crop farmer?
18. Name the class of food that helps to prevent constipation in the digestive system of man
19. What type of change is ripening of fruits?
20. State the recommended first aid for high fever
21. Give a reason why some plants change their leaves into thorns.

*The diagram below shows an animal. Use it to answer questions 22 and 23.*



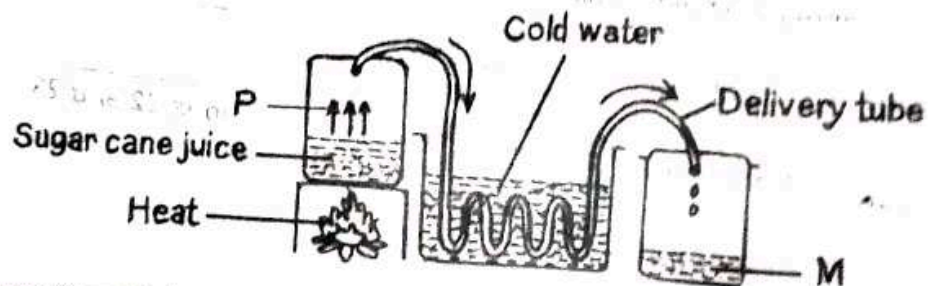
22. To which group of mammals does the above animal belong?
23. In which way is the reproduction of the above animal different from that of a spiny ant eater?
24. Write one agent of soil erosion.
25. Name the infectious disease that affects both nerves and limbs
26. Name the part of a flower that performs the same function as the sperms in humans.
27. In which way can a camel be used as an energy resource?
28. Give a reason why the breathing rate of an athlete is higher immediately after a race.
29. How can you tell that a home has poor sanitation?
30. Give one reason why the government encourages people to practice family planning.
31. What is the importance of boiling water for drinking?

What is **demography** as used in health education?

33. What name is given to the turning point of a lever?
34. How does draining of stagnant water control the spread of malaria in a home?
35. Why is calcium added in feeds of layer birds?
36. Which property of air helps a person to pump air into a flat car tyre?
37. Name any one viral disease that affects cattle.
38. How is soil erosion in hilly areas controlled?
39. Why are pregnant women grouped under vulnerable persons?
40. State one danger of taking unprescribed drugs.

#### SECTION B

41. The diagram below shows an activity carried out in Wandago village. Use it to answer questions that follow.



- (a) Name the activity taking place in the diagram above.
- (b). Which process is taking place at P in the diagram?
- (c) What Scientific term is given to the substance marked M in the diagram?
- (c) Name the method of making alcohol shown in the diagram.
- 42(a) What do you understand by the term scald?
- (b). Give any one sign of a scald.
- (c) State any one first aid administered for a scald
- (d) State one way of preventing scalds to young children.

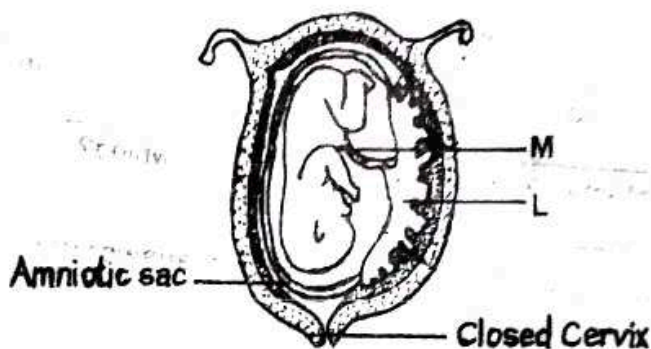


43. Match the organisms to their groups where they belong.

<u>Organism</u>	<u>Group</u>
(a) Scorpion	amphibians
(b) Baboon	arachnids
(c) Frog	reptiles
(d) Crocodile	primates

- (a) Scorpion \_\_\_\_\_  
 (b) Baboon \_\_\_\_\_  
 (c) Frog \_\_\_\_\_  
 (d) Crocodile \_\_\_\_\_

44. The diagram below shows a developing foetus in a woman. Use it to answer the questions that follow.



(a) Name part marked M.

(b) How is part marked L useful to the developing foetus?

(c) Which of the labeled parts protects the foetus from external damage?

(d) Why should a woman in such a condition visit health centres regularly?

45(a) What type of metamorphosis is undergone by a butterfly?

(b) Name any other insect that undergoes the same type of metamorphosis like the butterfly.

(c) Which stage in the life cycle of a butterfly is dangerous in the environment?

(d) Name the second stage in the life cycle of a cockroach.

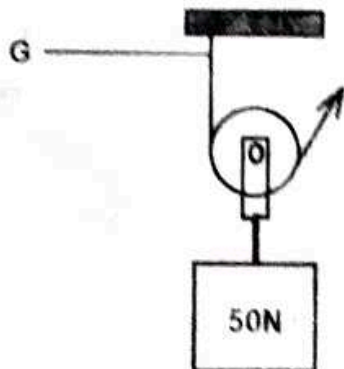
46(a) What is near drowning?

(b) Give one place where near drowning can take place at school.

(c) Suggest one way a 6 year old boy can help an adult who is near drowning?

(d) How can children be protected from the danger of near drowning?

47. The diagram below shows a pulley system. Use it to answer questions that follow.



(a) Name the type of pulley system shown above.

(b) Using a pen, draw an arrow head on rope G to show the direction of force

(c) Calculate the effort needed to lift the load. (2 marks)

48(a) What is electricity?

(b) What type of electricity is lightning in nature?

(c) State the function of a fuse in an electric circuit

(d) Give a reason why domestic electric wires are insulated.

49(a) What is environmental degradation?

(b) State any two causes of environmental degradation.

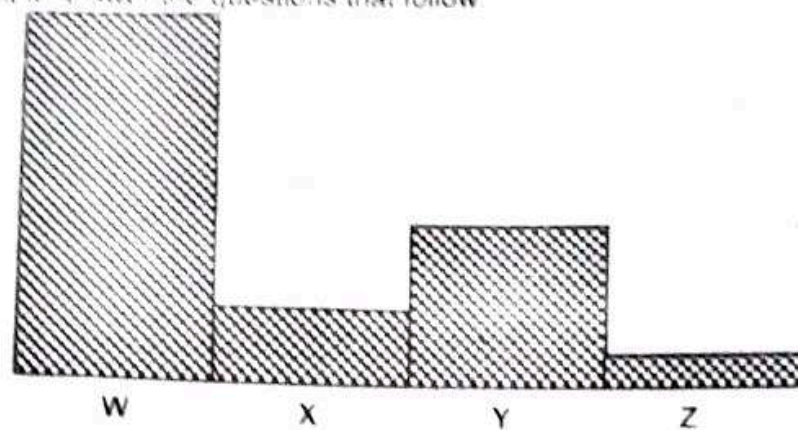
(i)

(ii)

(c) Give one way you prevent water sources from being degraded.



50. Below is a graph showing the composition of different gasses in the atmosphere. Use it to answer the questions that follow.



- Which gas is represented by letter **X** on the graph?
- Which letter on the graph represents the gas responsible for germination?
- Why is the gas marked **Z** taking the shortest bar?
- Name the bacteria responsible for fixing gas marked **W** into the soil.

51(a) Name the type of cattle purposely reared for.

(i) beef production

(ii) milk production

(b) Give one way how one can identify beef cattle from dairy cattle.

(c) Apart from getting beef and milk, how else are cattle useful to people socially?

52(a) What is seed dispersal?

(b) Name the type of seed dispersal in a black jack.

(c) Give one characteristic of seeds dispersed by wind.

(d) State one advantage of seed dispersal in the environment

53 P.4 pupils of Canaan Junior School were given irregular objects to find their volume.

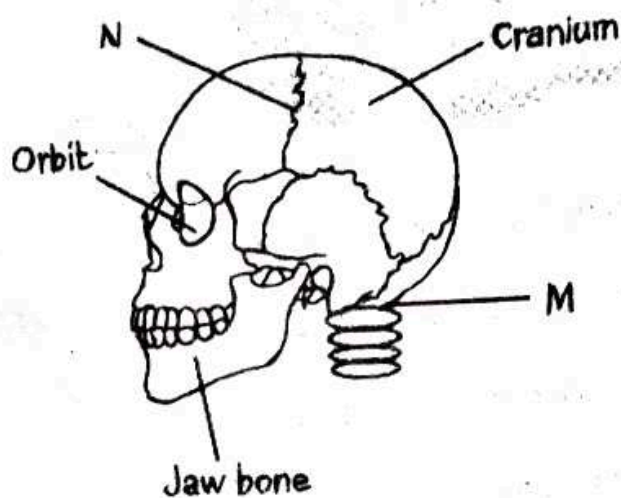
(a) Name two equipments the pupils needed to have.

(i)

(ii)

(b) Name the method pupils used to find the volume of the given objects.

1. The diagram below shows a part of the human skeleton. Use it to answer questions that follow.



- Which delicate body organ does the cranium protect?
- \_\_\_\_\_
- Name the joint marked with letter N.
- \_\_\_\_\_
- Which kind of movable joint is found at part marked M?
- \_\_\_\_\_
- d) Give one function of the delicate organ protected by the cranium.
- \_\_\_\_\_
- Matter is anything that occupies space and has mass.**
- What term do we give to the small particles that make up matter?
- \_\_\_\_\_
- b) In which state of matter does heat travel slowest?
- \_\_\_\_\_
- c) Name the process when gas changes directly into solid.
- \_\_\_\_\_
- j) Why are handles of iron boxes commonly made of wood?
- \_\_\_\_\_