

THE ARIAL EXAMINATIONS®

P.7 PRE-MOCK SET III 2023 INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

School Number						Personal number		

NAME: _____ STREAM _____

SCHOOL: _____

DISTRICT: _____

Read the following instructions carefully

1. This paper is made up of two sections: A and 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 and B.
5. All answers must be written in spaces provided using blue or black pens or Ink. Only diagrams should be done in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Do not fill any thing in boxes indicated for examiners' Use only.

FOR EXAMINERS' USE ONLY

page	Marks	Initials
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Total		

Subject teacher's Comment to the learner

Approved by

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Team Leader

SECTION A: (40 MARKS)

1. Name the human body organ which enables the learner to remember what is taught by the teachers.

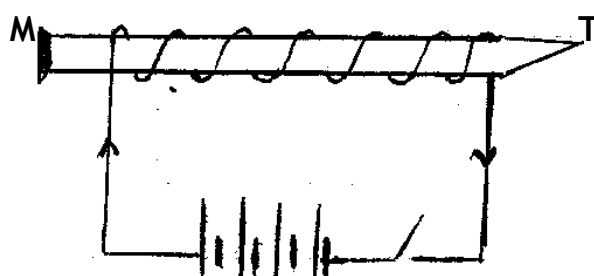
2. Write the component of air used in extinguishing fire.

3. Why are minerals grouped under non renewable resources?

4. Give any one reason why people should test their blood for HIV/AIDS.

5. State any one way a farmer can improve on the local breeds of goats.

The diagram below shows a method of making magnets. Study it and use it to answer question 6 and 7.



6. Name the method of making magnet shown in the above diagram.

7. What would you do to increase strength of the magnet using the above method?

8. State any one activity which helps to promote oral health.

9. Why do bees visit flowers?

10. Give one reason why we should cut our fingernails short.

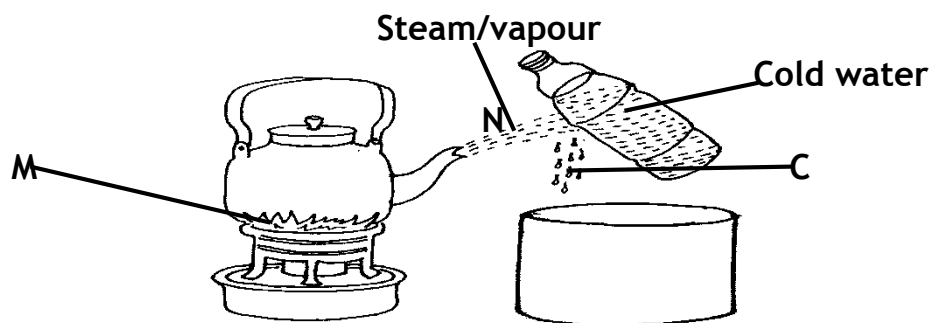
11. Write one way how houseflies are able to carry germs.

12. Mention one disease spread through the 4Fs.

13. Write one group of living things in the environment.

14. Name one way of keeping the compound clean.

The diagram below is of a water cycle. Use it to answer the questions 15 and 16.



15. What do the arrows marked M represent in the environment?

16. What does substance C represent in nature?

17. State any one place where food is got.

18. Give the best way of preventing Kwashiorkor in young children.

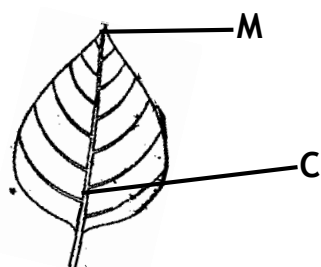
19. Write the use of a lateral line to a fish in water.

20. Give one reason why animals make sound.

21. Give one way of controlling soil erosion in the school compound.

22. Write one item made from banana fibres.

The diagram below is of a leaf. Use it to answer the questions 23 and 24.



23. Name the type of the leaf shown above.

24. Name the part marked with letter C.

25. Where do mosquitoes lay their eggs?

26. Name the fuel got after burning wood.

27. How can people prevent bad body smell?

28. Give one way of keeping our kitchen clean at home.

29. Name any one crop grown in wetlands.

30. How is drinking of unboiled water dangerous to human life?

31. State one way in which people should care for their clothes.

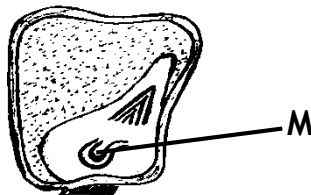
32. Why do some people keep cats at home?

33. Apart from honey bees, name any one other example of useful insect.

34. Give one PIASCY message expected to be in the school compound.

35. Give any one example of utensils found in the kitchen.

The diagram below is of a seed. Use it to answer questions 36 and 37.

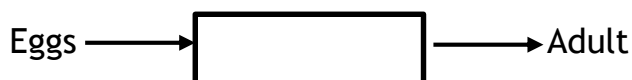


36. Name the part marked M.

37. Of what use is the named part in 36 to a seed when germinating?

38. What do we call air in motion?

39. Complete the life cycle of a cockroach by filling in the blank space.



40. Why do farmers carry out crop rotation?

SECTION B.(60 MARKS)

41. (a) Give the meaning of the term “ mulching” as used in crop growing.

(b) In which way does mulching improve soil fertility?

(c) Apart from improving soil fertility, mention any **one** way in which mulching is an important crop growing practice.

(d) Give any **one** way how mulching may be dangerous to crop.

42. (a) Name any **two** systems of rearing chicken in Uganda.

(i) _____

(ii) _____

(b) Mention any **two** types of chicken kept in Uganda.

(i) _____

(ii) _____

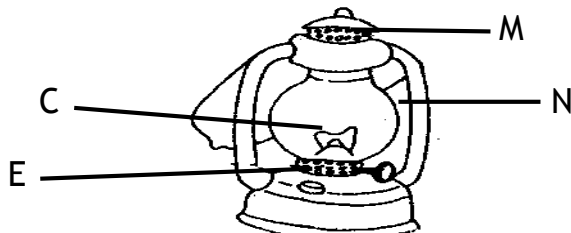
43. (a) What happens to the ribcage when a person breathes in.

(b) Give a reason for your answer in(a) above.

(c) State **one** hereditary disease of the respiratory system.

(d) Write down any **one** way of controlling respiratory diseases without taking drugs.

44. The diagram below shows a kerosene lamp. Study and use it to answer the questions that follow.



(a) Name the part marked with letter C.

(b) Why is part marked N made of glass?

(c) Give the importance of the part marked M and E when the lamp is in use.

(i) M _____

(ii) E _____

45. (a) Mention **two** Primary sex changes that happen in boys.

(i) _____

(ii) _____

(b) Give **two** secondary sex changes which happen in both boys and girls.

(i) _____

(ii) _____

46. (a) Name the outmost layer of the human skin.

(b) State any **one** waste product removed by the skin apart from excess water.

(c) Apart from removing wastes, mention **two** other functions of the human skin.

(i) _____

(ii) _____

47. (a) Which type of mixture is formed when flour is mixed with water?

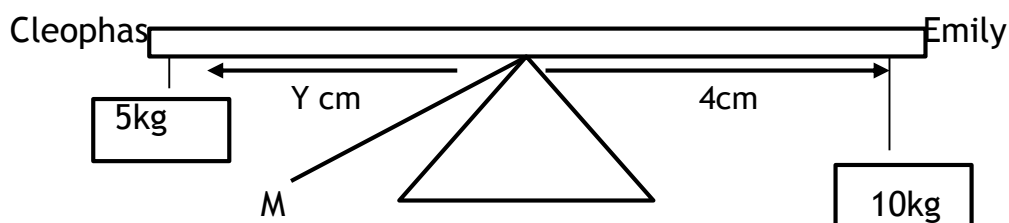
(b) Why do the particles of flour remain suspended in water?

(c) Give the suitable method of separating the following mixtures.

(i) crude oil _____

(ii) Sand and water _____

48. Cleophas was playing with Emily using a see-saw as shown below.



(a) Name the part marked M.

(b) Write down any **one** factor that affects the weight of an object.

(c) How far is Cleophas from Emily?

49. (a) Name the larva stage of the following insects

(i) Butterfly _____

(ii) Moth _____

(b) How is a moth dangerous to a crop farmer?

(c) Name the dormant stage in the lifecycle of a butterfly.

50. Match the vectors in list A with the diseases in list B.

A

Rat fleas

Simulium flies

Culex mosquito

Lice

B

- typhus

- filariasis

- bubonic plague

- riverblindness

(i) Rat fleas _____

(ii) Simulium flies _____

(iii) Culex mosquito _____

(iv) Lice _____

51. (a) State **two** methods of vegetation propagation.

(i) _____

(ii) _____

(b) Give any **two** advantages of vegetative propagation in plants.

(i) _____

(ii) _____

52. Use the list of animals below to answer questions which follow.

(tortoise, tick, mouse and earthworms)

(a) Which of the above animals belong to;

(i) Vertebrates _____

(ii) Invertebrates _____

(b) Identify **one** parasite among the animals in the list above.

(c) How is the reproduction in earthworms different from other animals above?

53. (a) Write down any **two** duties of a school health club.

(i) _____

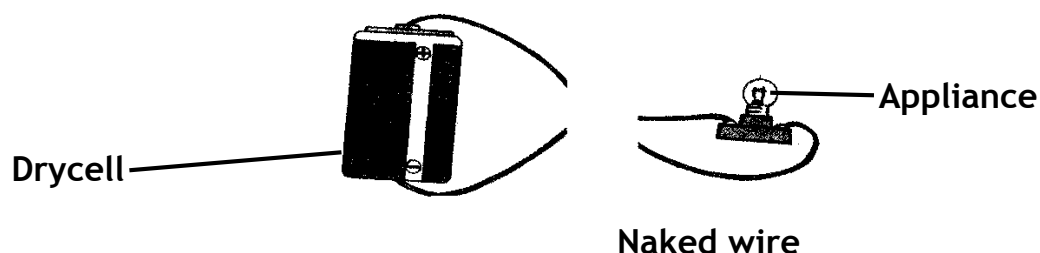
(ii) _____

(b) Give **two** things children can use to keep the school clean.

(i) _____

(ii) _____

54. The diagram below shows an electric circuit. Study and use it to answer questions that follow.



(a) Name the electric disorder shown in the diagram above.

(b) Write down **two** causes of the above disorder in a building.

(i) _____

(ii) _____

(c) Name any **one** sign of the above disorder in an electric circuit.

55. (a) What are the end products of the following food nutrients;

(i) Carbohydrates _____

(ii) Proteins _____

(b) Which digestive process takes place in the following parts;

(i) small intestine _____

(ii) large intestine _____

END

