



UGANDA MUSLIM TEACHERS' ASSOCIATION
UMTA JOINT MOCK PRIMARY LEAVING EXAMINATIONS 2023
INTEGRATED SCIENCE AND HEALTH EDUCATION

2 HOURS 15 MINUTES

INDEX NUMBER									
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NAME.....SIGN.....

SCHOOL.....DISTRICT.....

INSTRUCTIONS TO CANDIDATES:

1. This paper is made of two sections **A** and **B**
2. Section **A** has **40** questions and **B** has **15** questions.
3. Section **A** carries **40** marks and section **B** carries **60** marks.
4. Answer all questions in the space provided.
5. Answers must be written in blue or black ink.
6. Any handwriting which cannot be read will lead to loss of marks.
7. Unnecessary alterations of work may lead to loss of marks.
8. Do not fill anything in the boxes shown on the right side, it is for Examiners use only

FOR EXAMINER'S USE ONLY		
QN.	MARKS	INITIAL
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 female reproductive cells in flowers.

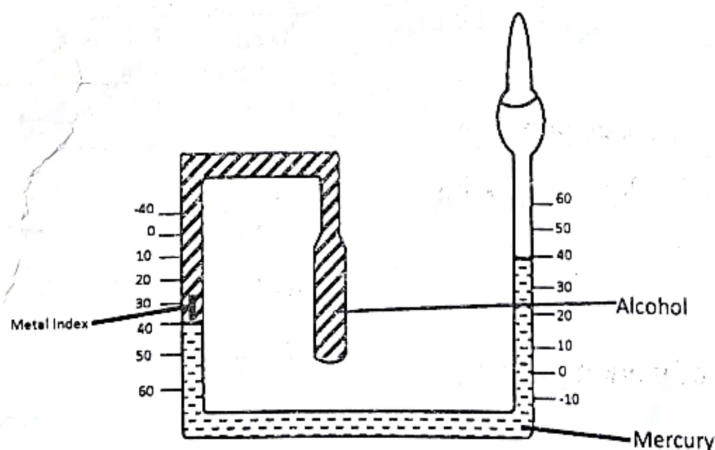
2. Which part of the human body performs a similar function as the lateral line of a fish?

3. Name the fungal skin disease which in spread through sharing clothes and beddings with the infected person.

4. Give a reason why carbon dioxide is used in fire extinguishers.

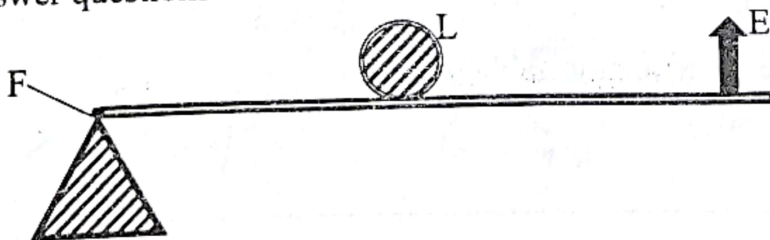
5. State **one** way in which electricity can be conserved at home.

Use the diagram of a weather instrument below to answer Question 6.



6. What is the use of this instrument at a weather station?
7. How is smoke important during harvesting of honey?
8. Why should a cold compress be put on the part of the body with a strain?
9. Which method of heat transfer enables a person to roast maize on a charcoal stove?
10. Apart from wind, give one other factor which contributes to soil formation by weathering.
11. Give a reason why the biceps and triceps muscle are referred to as voluntary muscles.
12. How can Rinderpest be prevented in cattle?
13. Why are male anopheles mosquitoes always common around plants?

The diagram below shows a representation of a lever machine. Study and use it to answer questions 14 and 15.



14. Name the class of levers represented in the diagram above.

15. Give a reason why all levers represented in the diagram require less effort to simplify work.

16. How is the growing of leguminous plants important to the soil?

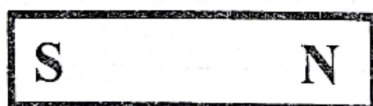
17. How is wind helpful in the reproduction of some plants?

18. Name the optical instrument used to view distant objects.

19. How do animals make use of the gas given out by plants during photosynthesis?

20. State the danger of eating half cooked meat or fish?

21. Draw magnetic fields on the bar magnet below.



22. Apart from Pertussis, name **one** other immunizable disease prevented using DPT Vaccine.

23. How does excessive alcoholism affect the intestines in human beings?

24. Why is it not advisable to pour paraffin in pit latrines?

25. In which way is the skin similar to the kidneys?

26. State **one** way in which reflection is useful to people.

27. Give **one** way in which a maize grain is different from a bean seed.

28. State **one** characteristic which enables a toad to live in water and on land in its life cycle.

29. How are red blood cells suited for carrying oxygen around the body.

30. Give a reason why weaning is recommended to start at 4 months.

31. Why is the temperature scale of a clinical thermometer ranging 34°C to 42°C .

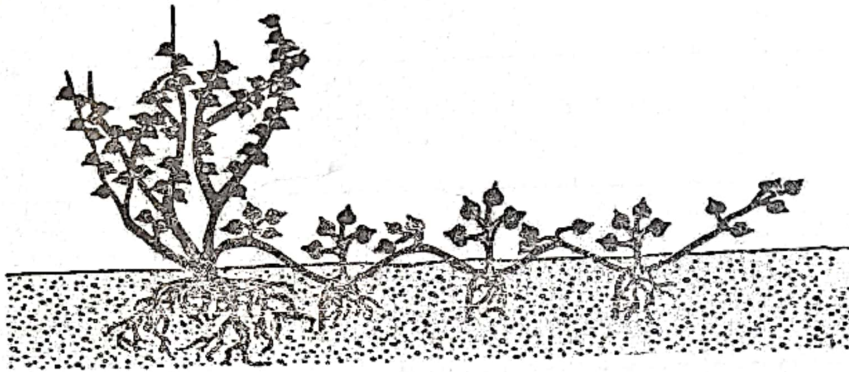
32. What happens to light rays when they strike a concave lens?

33. How are tadpoles and fish similar in terms of breathing?



The diagram below shows a method of plant propagation.

Use it to answer questions 34 and 35.



34. Name the method of plant propagation shown in the diagram above.

35. Give **one** example of a crop which can be propagated using the above method.

36. Apart from releasing ova, give **one** other way in which the ovaries are important in the female reproductive system.

37. What form of energy is produced by water in hot springs?

38. What is the danger of having too much plaque on the teeth?

39. Mention any **one** condition which can lead to sickness at home.

40. Give a reason why vitamins are not digested in the human body?



SECTION B: 60 MARKS

41.(a) Name any **one** major layer of the skin.

(b) State the manufacture function of the skin.

(c) Why does the hair on the human skin stand upright during cold weather?

(d) How does smearing the skin with jelly keep it safe?

42.(a) Give any **two** examples of Renewable resources in the environment.

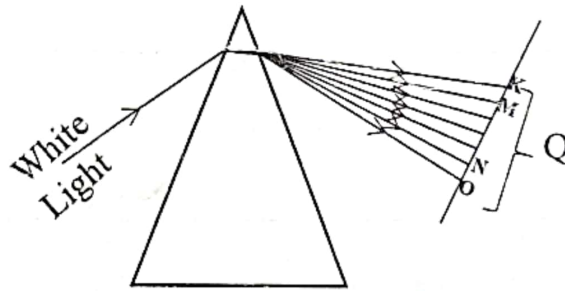
(i)

(ii)

(b) Which natural process allows living renewable resources to maintain their existence in the environment.

(c) How can water as a renewable resource be maintained in the environment?

43. The diagram below shows a triangular glass prism. Study and use it to answer questions that follow.



(a) Name the colours marked N and M.

(i) _____

(ii) _____

(b) Which object is represented by letter Q on the diagram?

(c) Why is there a difference in bending as light goes through the glass prism?



44.(a) Apart from testing blood for HIV, write down two other health care services which are provided through maternal and child health

(i) _____

(ii) _____

(b) In which way is each of the following elements of PHC important in the community?

(i) Immunization:

(ii) Family Planning:

45.(a) Name the physical changes which occur when:

(i) Steam changes directly to ice: _____

(ii) Ice changes to water: _____

(b) How does heat affect the following substances:

(i) Metals: _____

(ii) Water: _____

46.(a) Give **one** way in which weeds affect crop growth in the garden.

(b) State **two** ways in which mulching controls growth of weeds in the garden.

(i) _____

(ii) _____

(c) State **one** advantage of weeds to farmers.



47.(a) Write down **two** examples of non-flowering plants.

(i) _____

(ii) _____

(b) State the similarity and difference between the plants in (a) above and most fungi.

(i) Similarity _____

(ii) Difference _____

48.Match the crop growing practice in list A to their importance in list B.

List A

Gap filling

Pruning

Crop rotation

Mulching

List B

Breaks the lifecycle of pests.

Ensures target plant population

Retains moisture in the soil

Reduces plant weight in fruit trees.

(i) Crop filling: _____

(ii) Pruning: _____

(iii) Crop rotation: _____

(iv) Mulching: _____

49.The diagram below shows two different types of human teeth. Study and use it to answer questions that follow.



(a) Name the tooth marked

(i) W _____

(ii) R _____

(b) State the function of tooth **R**

(c) How is tooth **W** suited for its function?

50. (a) What is brooding?

(b) Name the type of brooding in which the mother bird provides care to the chicks.

(c) Write down any **two** advantages of the type of brooding named in (a) above.

(i) _____

(ii) _____

51.(a) State **one** characteristic which is common to all invertebrates.

(b) To which group of Invertebrates does each of the following animals belong?

(i) Tape worm: _____

(ii) Cockroach: _____

(c) State the way in which suckers are useful to a tape worm.

52.(a) Name the clouds which bring rainfall.

(b) Write **two** physical processes which occur during rainfall formation.

(i) _____

(ii) _____

(c) How does rainfall support plant growth in the environment?



53.State the method that can be used to separate:

(i) Iron fillings from saw dust: _____

(ii) Alcohol and water: _____

(b) Apart from sorting, state one other step taken when cleaning clothes at home.

(c) State **one** way in which sorting is important when cleaning clothes.

54. (a) State any **two** ways in which people mis-use drugs in their families.

(i) _____

(ii) _____

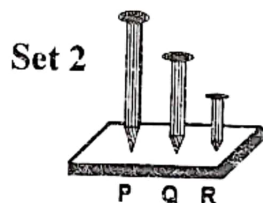
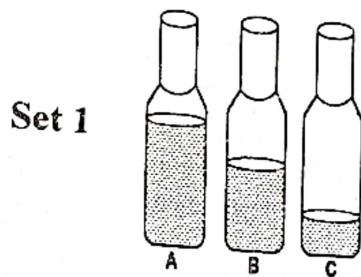


(b) Give **two** reasons why mothers are advised not to smoke during pregnancy.

(i) _____

(ii) _____

55. The diagram below shows instruments which can be used to produce sound.
Study and use it to answer questions that follow.



(a) How do the instruments in set 1 and set 2 produce sound?

(i) Set 1: _____

(ii) Set 2: _____

(b) How is bottle A and nail R similar in the sound they produce?

(c) What causes the difference in sound produced by the bottles in set 1.



END