



BROAD EXAMINATIONS®

P.7 PRE - MOCK 2023

INTEGRATED SCIENCE EXAMINATION

Time allowed: 2 hours 15 minutes.

Random No.	Personal No.

Candidate's Name: _____

Candidate's Signature: _____

District Name: _____

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 the space provided in blue or black ball point pens and ink. Only diagrams should be done in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the boxes indicated for Examiners' use only.

Teacher's comment to the learner

FOR EXAMINERS' USE ONLY		
PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

Approved by:

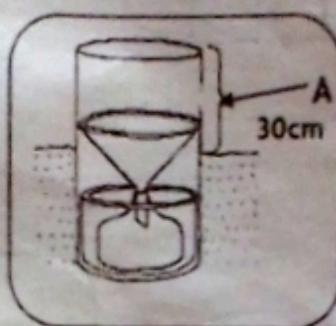
Agnes Akinyi

Team Head Int. Science Department

SECTION A. (40 Marks)

1. Name the male reproductive cells of a flowering plant.
2. Why is the trachea of the human respiratory system able to keep open all the time?
3. State the difference in the types of skeleton between man and an insect.
4. Write down any one primary sex change in adolescent boys.

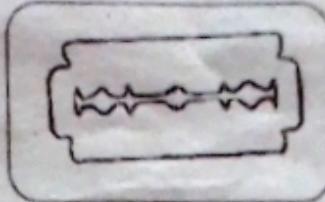
The diagram below shows a rain gauge. Use it to answer question 5.



5. Why is part A of the rain gauge left 30cm above the ground?
6. In which way does paddocking system control ticks in cattle keeping?
7. State the standard units used to measure mass.
8. Give one importance of a generator in production of hydroelectricity.
9. Give any one method used to make water safe for drinking.
10. Why does an insect die when its abdomen is dipped in water for some time?
11. State one way regular weeding controls crop pests in the garden.
12. Name the component of blood affected by malaria parasites.
13. In which one way is a child health card useful to a mother during immunisation programme?

14. Give a reason why minerals should be used sparingly.

The diagram below shows a tool used in promoting personal hygiene. Use it to answer question 15.



15. How does the above tool help a mother to prevent the spread of diarrhoeal diseases among her children?

16. State any one way floods may lower crop production in an area.

17. Mention one use of steam as an energy resource.

18. State any one modern method of preserving foods.

19. Give any one structural characteristic of arteries.

20. State the role of teeth in digestion of food.

21. Give a reason why first aiders tie a tourniquet slightly above the bitten part when giving first aid for snake bites.

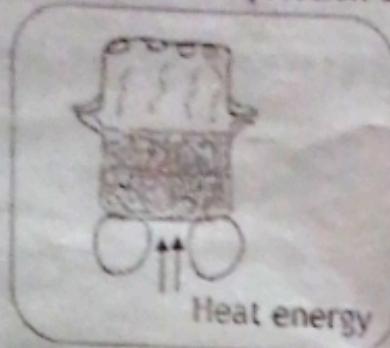
22. Name the human body organ that enables a person to sense high temperatures in the surroundings.

23. Suggest a reason why some people take drugs of abuse.

24. Mention one advantage of using a single fixed pulley in doing work.

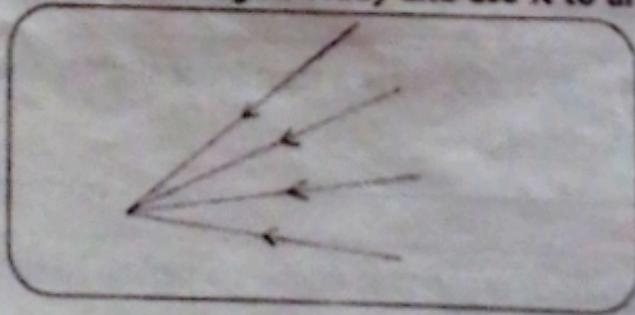
25. Name the component of an electric circuit that breaks the circuit when too much current flows through it.

The diagram below shows an experiment about one of the properties of soil. Study and use it to answer question 26.



26. Which property of soil is shown by the experiment in the above diagram?
27. Why do some mothers give crushed egg shells to their young children?
28. In which way is smoking harmful to the human respiratory system?
29. State one danger of keeping crop produce in damp stores.
30. State the importance of the liver as an excretory organ.
31. Give a reason why a hot glass of a lantern lamp producing light breaks when cold water is poured on it.

The diagram below shows a beam of light. Study and use it to answer question 32.



32. Which type of lens forms the type of beam in the diagram above when light passes through it?
33. Give any one way of reproducing stored sound energy.
34. State one way in which poor management of rubbish leads to easy spread of diarrhoeal diseases.
35. State one factor that may not favour the multiplication of bacteria in the environment.

36. Give a reason why rusting is regarded as a chemical change.

37. State the function of suckers to a tapeworm.

The diagram below shows a life cycle of a type of mosquito. Use it to answer question 38.



38. Name the type of mosquito that would develop from the above larva.

39. How are reptiles different from amphibians in terms of reproduction?

40. Mention the method of castrating farm animals which involves the use of burdizzo.

SECTION .B. (60 Marks)

41. (a) Apart from melting, give one other change of state of matter caused by heat gain.

(b) Write down one importance of melting process in our daily life activities.

(c) At what temperature does ice start melting?

(d) In which state of matter is water called ice?

42. (a) Give two examples of foreign bodies that may enter eyes of a human.

(i) _____

(ii) _____

(b) State the recommended method of removing iron bits as foreign bodies from the human eye.

(c) State any one reason for giving first aid to casualties.

43. (a) What happens to each of the following muscles when the arm is bent;

(i) biceps? _____

(ii) triceps? _____

(b) Give any two functions of muscles in the human body.

(i) _____

(ii) _____

44. (a) Give any two causes of soil erosion in agricultural fields.

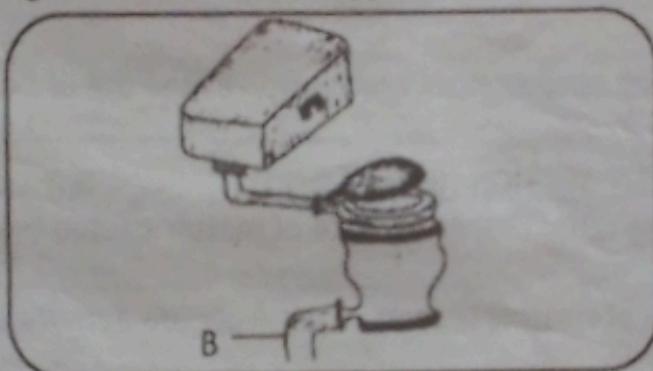
(i) _____

(ii) _____

(b) How does the use of mulches help to reduce soil erosion in agricultural fields?

(c) Apart from mulching, mention one other cultural practice that controls soil erosion.

The diagram below shows a type of latrine. Use it to answer question 45.



45. (a) Name the type of latrine shown in the diagram above.

(b) Why do you think part B of the type of latrine above is bent?

(c) Where does part B of the type of latrine above lead to?

(d) Give one disadvantage of using the above type of latrine.

46. (a) State the way the following types of teeth are adapted to their functions;

(i) Canines

(ii) Incisors

(b) State any one way premolars and molars are related in terms of their structures.

(c) How does regular brushing of teeth prevent tooth decay?

47. (a) What type of immunity is acquired after;

(i) recovering from an illness? _____

(ii) getting immunized? _____

(b) Name the disease all girls of child bearing age are immunized against.

(c) Write down the role of antibodies in the human body.

48. (a) State a reason why artificial permanent magnets should be kept with iron keepers.

(b) Give two ways artificial permanent magnets can be made to lose their magnetism.

(i) _____

(ii) _____

(c) Name one method of magnetization that produces temporary magnets.

49. (a) Mention any two examples of flesh eating birds.

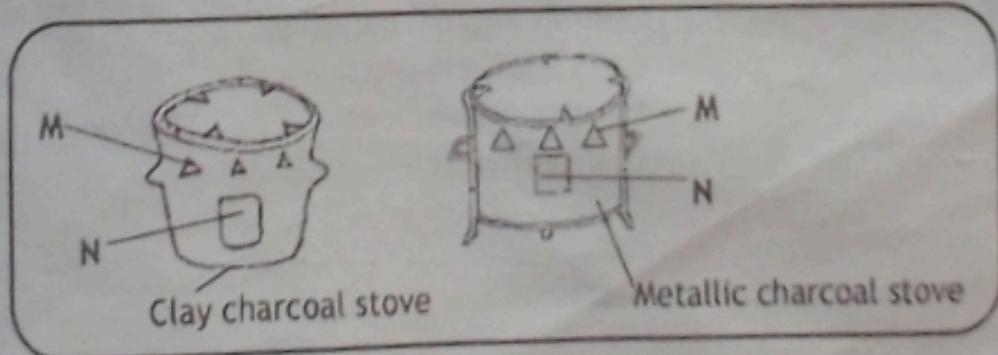
(i) _____

(ii) _____

(b) Write down one adaptation of flesh eating birds to their predatory way of feeding.

(c) Why are flesh eating birds said to be secondary consumers in a given food chain?

The diagrams below show two different charcoal stoves. Use them to answer question 50.



50. (a) Which of the two stoves is recommended for conservation of heat energy?
