



BROAD EXAMINATIONS®

P.7 INTEGRATED SCIENCE EXAMINATION TRIAL SET II TERM I 2024

Time allowed: 2 hours 15 minutes.

Candidate's Name:

Candidate's Signature:

School Name: 41

Read the following instructions carefully:

1. This paper is made up of two sections: A and B. 79
65
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.

FOR EXAMINER'S USE ONLY

PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

Teacher's comment to the learner

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Approved by:

Agnes M. Mwangi

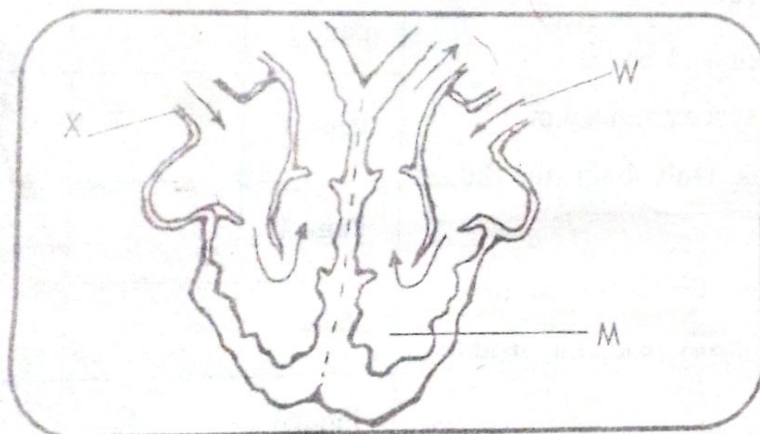
Team Head Science Dept.

A = 16 - B = 40

SECTION .A. (40 Marks)

1. Give any one material used to make mats at home.
2. Mention the system of keeping poultry where birds are kept indoors in separate cages.
3. State a reason why people infected with tapeworms tend to become malnourished.
4. Mention any one example of plants that reproduce by means of spores.
5. In which one way do PIASCY messages prevent school girls from getting early pregnancies?
6. How do bacteria multiply in number?

The diagram below shows the human heart. Use it to answer questions 7 and 8.

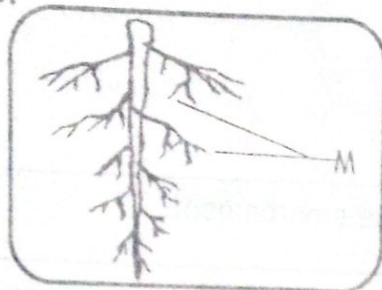


7. Name the part marked M.
8. How is blood vessel W similar to blood vessel X in their way of functioning?
9. Mention any one example of seeds that undergo hypogeal germination.
10. Suggest a reason why most goat keepers castrate their billy goats.
11. Mention any one drug abused by smoking.
12. State one advantage of using charcoal made stoves over metallic ones.

13. Why are bees said to be social insects?

14. Which vaccine is administered to babies through the right upper arm?

The diagram below shows a root system of flowering plants. Use it to answer questions 15 and 16.



15. Name the type of root system shown above.

16. How are structures marked M useful to flowering plants?

17. Suggest a reason why HIV positive mothers are discouraged from breastfeeding their newly born babies.

18. In which way does chlorination make water safe for drinking?

19. Mention the plant substance that bees use to make honey.

Abany's child has the following signs;

- rash all over the body
- red watery eyes
- runny nose

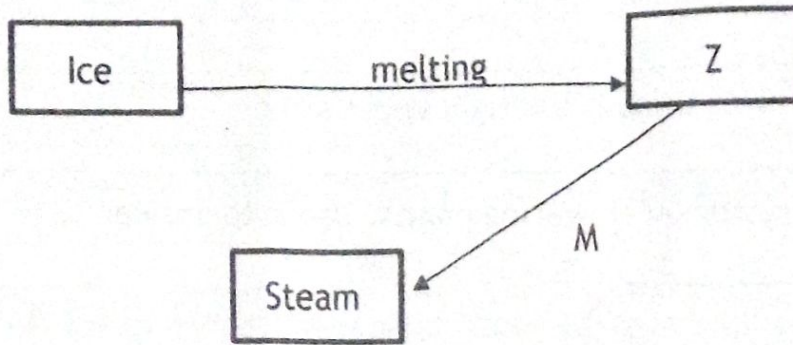
20. Which disease is Abany's child suffering from?

21. Mention one danger of cleaning our ears with a sharp object.

22. State a reason why farmers cut off leaves on newly planted banana suckers.

23. Which type of change occurs when a paper is burnt to ashes?

Use the diagram below about heat and answer questions 24 and 25.



✓ 24. Name the substance marked Z.

✗ 25. How is the process marked M useful in the environment?

26. Give a reason why a VIP latrine should not be built uphill the water source.

✓✗ 27. Write down the property of air that enables people to fill fire extinguishers with carbon dioxide.

28. Mention any one deficiency disease that attacks the skeletal system.

29. Why should crop farmers thin their annual crops?

30. Suggest any one way electricity bills can be reduced at home.

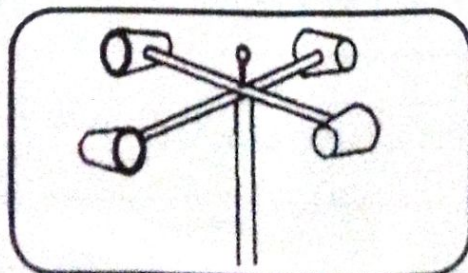
31. Name the heart disease caused by regular smoking of tobacco smoke.

32. Write down one characteristic of exotic breeds of rabbits.

✗ 33. In which one way is yeast useful in our daily activities?

✗ 34. Name the part of the human skeleton that protects the brain.

The diagram below shows a weather instrument, use it to answer questions 35 and 36.



35. Name the weather instrument shown above.

36. How is the above weather instrument useful at a weather station?

37. State any one example of a non living renewable resource in the environment.

38. What name is given to negatively charged particles of an atom?

39. Mention the step followed in cleaning clothes that makes drying faster.

40. Mention the function of the ear drum in the process of hearing.

SECTION .B. (60 MARKS)

41. (a) Write down two exotic dairy breeds of cattle.

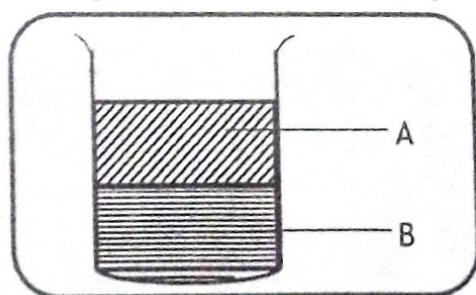
(i) _____

(ii) _____

(b) State a reason why farmers give their dairy cattle plenty of water.

(c) Of what importance are farm records to dairy cattle farmers?

Mercury was mixed with water in a container and left to settle as shown below. Use the diagram below to answer question 42.



42. (a) Name the liquids marked;

(i) A _____

(ii) B _____

(b) Give a reason why liquid A settled on top of liquid B.

(c) Which method can be used to separate the above liquids?

43. (a) What is sanitation?

(b) Mention any two activities done to promote sanitation in a school.

(i) _____
(ii) _____

(c) Give one indicator of poor sanitation that can increase the number of mosquitoes in our communities.

44. (a) Which food value is obtained from eating fish?

(b) Mention any two methods of preserving fish.

(i) _____
(ii) _____

(c) State a reason why fish should be preserved.

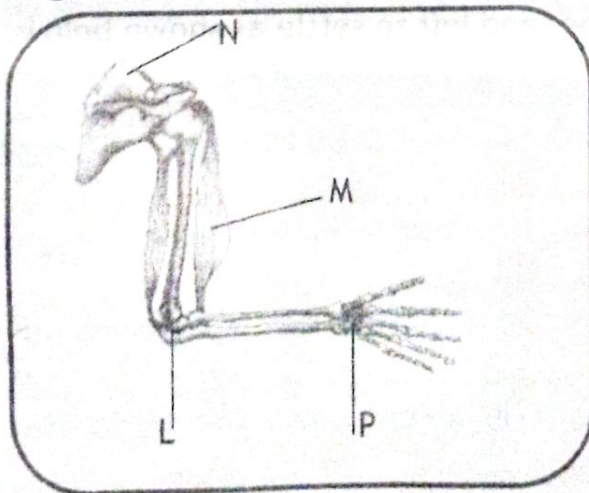
45. (a) Mention any two conditions that may lead to fainting.

(i) _____
(ii) _____

(b) Suggest a reason why legs of a fainted person are raised above their head when giving first aid.

(c) How is a first aid box useful in giving first aid?

The diagram below shows the human arm. Use it to answer question 46.



46. (a) Name the bone marked N.

(b) Name the type of joint found at;

(i) P _____
(ii) L _____

(c) State what happens to the muscle marked M when the arm is bent.

47. (a) Write down two properties of sand soil.

(i) _____

(ii) _____

(b) In which one way is sand soil useful to people?

(c) How do earthworms help in formation of soil?

48. (a) Mention any one primary sex change that occurs in girls.

(b) Write down any two permanent methods of family planning.

(i) _____

(ii) _____

(c) Give a reason why some parents produce many children.

49. (a) Why can't most plants carry out photosynthesis at night?

(b) Mention two raw materials used by plants in the process of photosynthesis.

(i) _____

(ii) _____

(c) In which one way do animals benefit from the process of photosynthesis?

50. (a) How is saliva useful in the chemical digestion of carbohydrates?

(b) Mention any one substance absorbed in the stomach.

(c) Give any one enzyme found in the duodenum.

(d) Suggest a reason why people should include roughages in their diet.

Study the table below and use it to answer question 51.

A	B	C	D
▪ spider	▪ centipede	▪ bees	▪ crab
▪ mite	▪ millipede	▪ locust	▪ lobster
▪ scorpion		▪ grasshopper	▪ prawn

51. (a) Name the group of arthropods in column;

(i) B _____

(ii) D _____

(b) How are animals in column A different from those in column C?

(c) State one characteristic common to all animals in the table above.

*52. (a) Which type of teeth;

(i) tears food? _____

(ii) has a chisel shape? _____

(b) How does calcium help to maintain the health of teeth?

(c) Mention one disorder of teeth.

53. (a) Write down two examples of vulnerable groups of people apart from babies.

(i) _____

(ii) _____

(b) Why are babies fed on soft food?

(c) Write down any one way of caring for babies.

*54. Match the following parts of air and their uses in the environment.

Part of air	Use
- Nitrogen	Filling of electric bulbs
- Argon	Respiration
- Carbon dioxide	Preservation of sperms
- Oxygen	Preservation of soft drinks

(i) Nitrogen _____

(ii) Argon _____

(iii) Carbon dioxide _____

(iv) Oxygen _____

*55. (a) Mention any one activity done to promote health education.

(b) Write down any other two elements of PHC apart from health education.

(i) _____

(ii) _____

(c) In which way can school children participate in promoting PHC activities?

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