



BROAD EXAMINATIONS®

P.7 INTEGRATED SCIENCE EXAMINATION

PRE – MOCK 2024

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.

FOR EXAMINERS' 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 Department

SECTION .A. (40 Marks)

1. Name the smallest blood vessels in the human body.

2. Give any one way in which friction reduces efficiency of a machine.

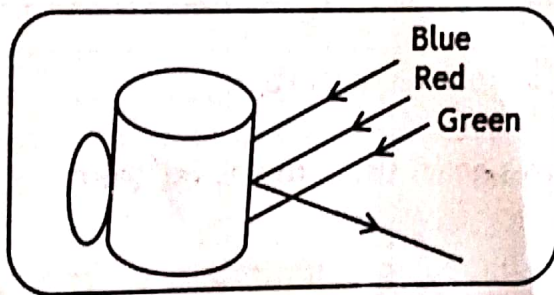
3. Why do some plants shed their leaves in the dry season?

4. Give a reason why farmers debeak their poultry.

5. How does brushing of teeth promote personal hygiene?

6. Mention one example of tuber crops propagated by means of seeds.

The diagram below shows a cup with different coloured light rays falling on its outside surface. Study and use it to answer question 7.



7. Why is it correct to say that the surface of the cup in the above diagram is red in colour?

8. State the function of semicircular canals found in the human ear.

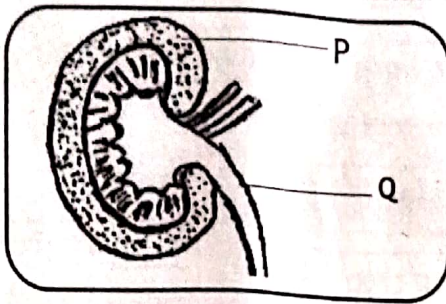
9. Which breed of goats would you encourage a farmer to keep for wool production?

10. What is the function of a fuse in an electric circuit?

11. Mention one method which can be used to extract honey from honey combs.

12. State the reason why a stone goes to the bottom when put in a container of water.

The diagram below shows a human kidney. Use it to answer questions 13 and 14.



13. Name the part labelled with letter P on the diagram above.

14. To which body organ does part Q lead?

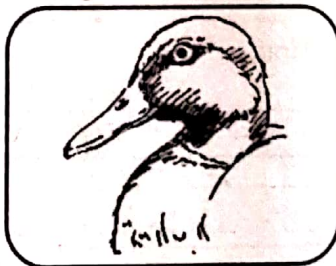
15. Give any one reason why clay soil is the best for making ceramics.

16. How is short sightedness corrected in humans?

17. Suggest any one way white blood cells are adapted to their function.

18. Mention any one method which can be used to preserve milk in a home.

The diagram below shows a structure of bird's head. Use it to answer question 19.



19. What kind of food does the bird whose head is shown above feed on?

20. State any one difference between legumes and cereal plants.

21. Why do humans urinate a lot during cold weather?

22. Name the drug found in tobacco which causes addiction.

23. How is a child health card useful to a doctor during immunisation?

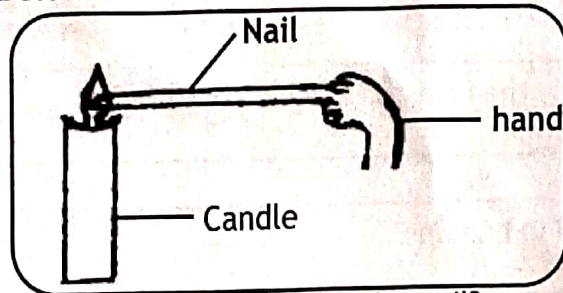
24. In which part of the digestive system are fats digested first?

25. How are molar and premolar teeth adapted to their work of grinding and crushing food?

26. Write down any one example of natural animal habitats.

27. In which one way can seed dispersal be dangerous to crop farmers?

The diagram below shows a method of heat transfer. Use it to answer question 28.



28. How does heat reach the hand through the nail?

29. In which one way do plants benefit from animals in the environment?

30. How does the diaphragm behave during exhalation?

31. Give the property of magnets which enables pilots to find direction.

32. What name is given to the liquid obtained through filtration?

33. How are dustbins important in the promotion of sanitation in a town?

34. In which one way is breathing in tadpoles similar to that in fish?

35. Name the germ which causes river blindness.

36. Why are legs of a fainting casualty raised at a higher level than the head when administering first aid?

37. Give any one way hot springs are important energy resources.

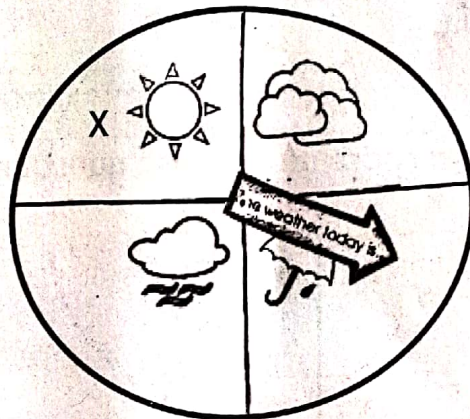
38. In which part of the reproductive system does fertilization take place?

39. What important process takes place in the human colon?

40. Name the intestinal worms that feed on digested food.

SECTION .B. (60 Marks)

The diagram below shows a weather chart that was seen pinned on a wall of a certain school. Use it to answer question 41.



41. (a) What was the weather of that day the above weather chart was seen?

(b) How do you think children of that school were managing the type of weather on that day?

(c) Mention one importance of the type of weather at X to crop farmers.

(d) State the use of the arrow on a weather chart.

42. (a) Mention any two ways food can get contaminated during its preparation.

(i)

(ii)

(b) Mention any two proper ways of handling food during its preparation.

(i)

(ii)

43. (a) Why is water said to be matter?

(b) State any one effect of heat loss on water.

(c) In which change of state of matter does liquid water turn into vapour?

(c) State the scientific reason why vapour moves upwards when boiling water?

44. (a) Define the term "reflection of light."

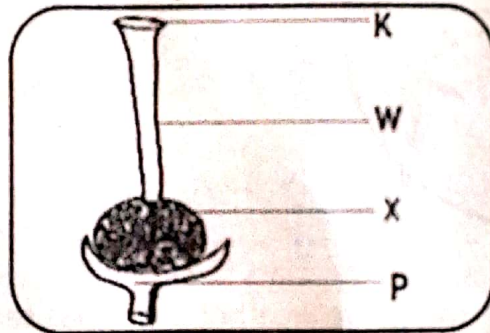
(b) What type of reflection is produced when light falls on smooth shiny and well-polished surfaces?

(c) State the two laws of reflection of light.

(i)

(ii)

The diagram below shows a part of a flower. Use it to answer question 45.



45. (a) What name is given to the part of a flower shown in the diagram above?

(b) Name the parts labelled with letters;

(i) K

(ii) P

(c) What does part marked X develop into after fertilization?

46. (a) Mention any two qualities of laboratory manufactured drugs.

(i)

(ii)

(b) State any two common ways the sick people usually misuse laboratory manufactured drugs prescribed for them in hospitals.

(i)

(ii)

47. (a) Why is it dangerous to cut fingernails using teeth?

(b) What is the use of a comb in the promotion of personal hygiene?

(c) Mention two items which are used to promote personal hygiene through bathing.

(i) _____

(ii) _____

48. (a) Write down any two signs of heat in cows.

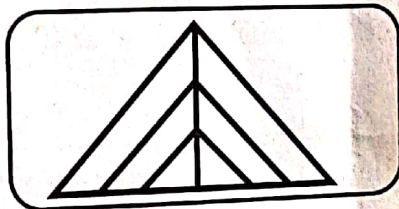
(i) _____

(ii) _____

(b) How can cows on heat be serviced in absence of a bull on a farm?

(c) What name is given to the practice of feeding pregnant cows on feeds rich in proteins?

The diagram below shows a simple machine. Use it to answer question 49.



49. (a) Name the class of simple machines shown in the diagram above.

(b) Give two examples of machines found in the class of simple machines shown above.

(i) _____

(ii) _____

(c) Give any one use of the class of simple machines shown above.

50. (a) Why are plants referred to as renewable resources?

(b) In which way can plants be replaced in the environment?

(c) Suggest any two ways of conserving plant resources in the environment.

(i) _____

(ii) _____

51. (a) How do bacteria reproduce?

(b) Give any two ways in which bacteria can be harmful to people.

(i) _____

(ii) _____

(c) Suggest any one health practice that can protect us against harmful bacteria.

52. (a) State any two functions of the skin apart from removing wastes from the human body.

(i) _____

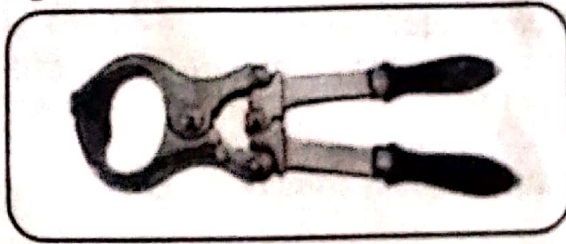
(ii) _____

(b) Mention any two waste products removed from the human body by the skin.

(i) _____

(ii) _____

The diagram below shows a tool used on an animal farm. Use it to answer question 53.



53. (a) Name the tool in the diagram above.

(b) Which practice on a farm uses the above tool?

(c) State two reasons why the practice you have named above is carried out on a farm.

(i) _____

(ii) _____

54. (a) How are biological changes important in living things?

(b) Mention two examples of biological changes in plants.

(i) _____

(ii) _____

(c) Apart from physical changes, name any one other type of changes in the environment.

55. (a) How is pitch different from volume as used in sound?

(b) Mention any two factors that affect pitch of sound.

(i) _____

(ii) _____

(c) Write down any one method used for storing sound.

END