



BROAD EXAMINATIONS®

P.7 INTEGRATED SCIENCE EXAMINATION

MID - TERM II 2023

Time allowed: 2 hours 15 minutes.

Random No.	Personal No.

Candidate's Name:

Candidate's Signature:

School 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 EXAMINER'S
USE ONLY**

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

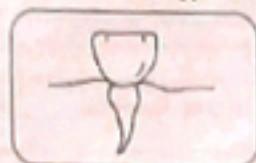
Approved by:

Team Head Science Dept.

SECTION .A. (40 Marks)

1. Give any one vitamin deficiency disease in humans.
2. In which way are fireflies special insects in our environment?
3. Of what importance are spiracles to a grasshopper?
4. State any one way tapeworms enter the human bodies.
5. Name the non-metallic conductor of electricity in a dry cell.
6. Write down any one reason why animals make sound in the environment.
7. State a reason why gaps are left between rails during construction of a railway line.
8. Name any one example of enzymes produced by the pancreas in humans.
9. Give any one function of chalaza to an egg.
10. Which type of skeleton is possessed by maggots?
11. State the reason why road constructors plant grass on the sides of roads.
12. Apart from the respiratory system, to which other human body system do lungs belong?
13. State the main cause of fainting in humans.
14. Write down the recommended treatment for dehydration in young children.
15. Why are handles of most electrical appliances made of rubber or plastic?

The diagram below shows the type of teeth. Use it to answer questions 16 and 17.



16. Name the type of teeth in the diagram above.

17. How is the above tooth adapted to its function?

18. How is heat loss by radiation through the vacuum of a thermos flask prevented?

19. Mention any one solute involved in making of ORS.

20. Suggest any one reason why clay soil is suitable for pottery.

21. Which component of air helps in the storage of semen to be used in artificial insemination?

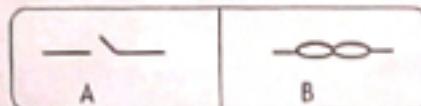
22. Mention any one method of extracting honey from honey combs.

23. Write down the artificial permanent method of family planning in males.

24. Give any one example of root tubers propagated by means of seeds.

25. How is the reproduction of pines similar to that of beans?

The diagrams below show parts of a simple circuit. Use them to answer question 26.



26. State one way in which the above parts of a simple circuit are similar in function.

27. Name the type of weather which helps in preservation of cereal crops.

28. In which way does mulching improve soil fertility?

29. Give any one way in which bacteria are useful to crop farmers.

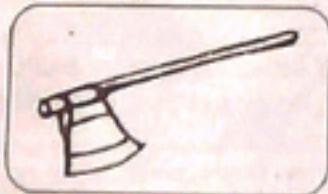
30. State any one way of reducing friction in moving parts of a factory machine.

31. Mention any one way in which the ileum is adapted to its function of food absorption.

32. Which type of fertilization do lizards undergo?

33. State the reason why the earth is said to be a magnet.

The diagram below is of a garden tool. Use it to answer questions 33 and 34.



34. To which group of simple machines does the above garden tool belong?

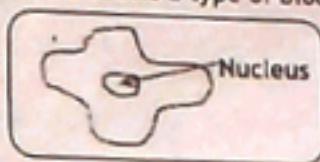
35. How can a farmer increase the efficiency of the garden tool in the diagram above?

36. Mention the food value obtained from eating yams.

Give one reason why vices are not common on poultry farms that use battery cage system.

38. What advice would you give to a mother of an infant with little brownish hair and swollen moon face?

The diagram below shows a type of blood cell. Use it to answer question 37.



39. State the function of the above blood cell in the body.

40. Give any one factor that favours the growth and multiplication of bacteria.

SECTION .B. (60 Marks)

Below is a sign post in a school compound. Study and use it to answer question 41.



41. (a) Name the element of PHC promoted by the message in the sign post above.

(b) State any one importance of such messages to adolescents.

(c) Give any two examples of narcotic drugs.

- (i) _____
(ii) _____

42. (a) Write down the protective function of the following parts to the human skeleton;

(i) Rib cage

(ii) Pelvic girdles

(b) How are ligaments useful structures of the human skeletal system?

(c) What name is given to an injury that stretches or tears the ligament at a joint?

43. (a) How is a housefly able to carry germs?

(b) Give any two ways of controlling houseflies in our homes.

(i)

(ii)

(c) Mention one disease spread by houseflies to humans.

44. (a) Name any two examples of scavenger birds.

(i)

(ii)

(b) In which way are scavengers useful in the environment?

(c) State the reason why birds like Ostriches and Kiwi are unable to fly.

45. (a) Name the digestive juice secreted by the walls of the stomach.

(b) State the function of renin in the stomach of a baby.

(c) Give two roles played by the hydrochloric acid found in the stomach.

(i)

(ii)

46. (a) Write down any two factors that lead to alcoholism among people.

(i)

(ii)

(b) Mention any two dangers of alcoholism to a family.

(i)

(ii)

47. (a) Give any two childhood immunisable diseases whose vaccines are injected on the left upper thigh.

(i)

(ii)

(b) How does the body react to vaccines when they are introduced in a human?

(c) State the best way of storing vaccines.

48. (a) Give any one difference between mass and weight.

(b) Name the instrument used in measuring weight in the diagram below.



(b) If an object of 20kg is placed on the above instrument, find the weight of the object in Newtons. (2 marks)

49. (a) Name the germ that causes HIV/AIDS.

(b) State the commonest mode through which HIV/AIDS is spread.

(c) Suggest any two ways of caring for HIV/AIDS victims.

(i) _____
(ii) _____

50. (a) Give any two ways in which sweating is useful to the human body.

(i) _____
(ii) _____

(b) Name the human body organ responsible for sweating.

(c) Which process in plants can be related to sweating in humans?

51. Arrange the following stages of rain formation in their correct order.

- The clouds melt and form rain.
The water evaporates and rises to the atmosphere.
The sun heats the water in water bodies.
The water vapour condenses to form clouds.

(i) _____
(ii) _____
(iii) _____
(iv) _____

52. (a) Name any two foodstuffs rich in iron.

(i) _____

(ii) _____

(b) How is iron useful in our bodies?

(c) Apart from iron, name any one other mineral salt useful in our bodies.

53. (a) Name the vector that spreads each of the following human diseases;

(i) elephantiasis _____

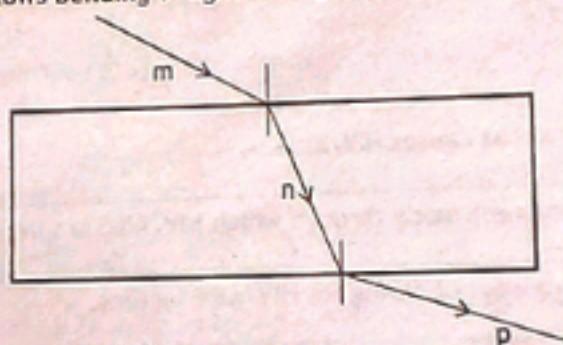
(ii) river blindness _____

(b) Mention any two human diseases that can be spread through sharing items like sponges, towels and stockings.

(i) _____

(ii) _____

The diagram below shows bending of light through a glass block. Use it to answer question 54.



54. (a) What term refers to bending of light as it moves from one transparent medium to another?

(b) Name the rays marked;

(i) m _____

(ii) n _____

(c) Why does ray p bend as shown in the diagram above?

55. (a) Write down any two physical properties of matter.

(i) _____

(ii) _____

(b) Give any one effect of heat gain on butter.

(c) In which state of matter would you put smoke?

END