



EXCEL EXAMINATIONS

PRE-MOCK EXAMINATIONS, 2024

INTEGRATED SCIENCE

TIME ALLOWED: 2HRS 15 MINUTES

EMIS No.						Personal No.		

INDEX NO

NAME _____ SIGNATURE _____

SCHOOL _____ STREAM _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully

- 1 This paper has 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 Section A and Section B Answers must be written in the spaces provided
- 5 All answers must be written using a blue or black ball-point pen or ink
Only diagrams may be done in pencil
- 6 Unnecessary alteration of work may lead to loss of marks
- 7 Any handwriting that cannot easily be read may lead to loss of marks

FOR EXAMINER'S USE ONLY

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MARKS								
SIGN								



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SECTION A (40 MARKS)

1. Name the longest bone in the body.
2. Why is a moon not a natural source of light?
3. Write down any **one** activity that uses wind.
4. Give any **one** reason why people prefer using solar to hydroelectric power.
5. Mention any **one** way of maintaining metallic doors on a house.

The diagram below shows a cigarette. Use it to answer questions 6-7.



6. Name any **one** drug used in making cigarettes.
7. Write down any **one** non communicable disease that results from smoking cigarrates
8. State any **one** effect of light on opaque objects.
9. Mention any **one** way how parents can manage their families well.
10. In which way are bees helpful to farmers?
11. To which group of machines does a knife belong?
12. Give any **one** reason why stones are used in road surfacing.

SECTION B (60 MARKS)

41(a) Define cannibalism among poultry

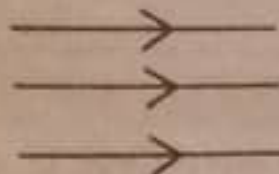
(b) Write down any **two** causes of cannibalism

(i)

(ii) State any **one** way how a farmer can control cannibalism among poultry

(c)

42(a) Name the following diagrams as used in light.



(b) In which **one** way does the body use the light from the sun.

(c) Give **one** reason why lightning is first seen before we hear thunder.

43(a) Write down any **one** local method used to preserve milk

(b) State any **two** conditions that can lower the quality of milk

(i)

(ii)

(c) Write down any **one** product of milk.

44(a) What is fainting?

(b) Write down any **two** conditions that lead to fainting

(i)

(ii)

(c) Write down any **one** way how a fainting victim can be helped.

52(a) What are enzymes?

(b) Which type of digestion requires enzymes to take place?

(c) Name the enzyme that helps in clotting of milk in babies

53(a) State any **one** reason why cholera is called a communicable disease

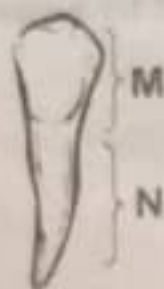
(b) Mention any **two** ways how most communicable diseases are spread

(i)

(ii)

(c) Mention any **one** element of PHC that can solve the dangers of communicable diseases

54. The diagram below shows a tooth. Use it to answer questions.



(a) Name part of the tooth labelled

M

N

(b) Identify the type of tooth shown above

(c) How is the above tooth adapted to its function?

55(a) Write down any **two** ways how forests are a resource in the environment

(i)

(ii)

(b) In which way are forests a danger to human life

(c) Mention any **one** way of conserving forests

(b) In which way does the use of electricity help to conserve forests.

(c) Write down any **one** way of saving electricity in a home

49(a) State the difference between a fracture and dislocation

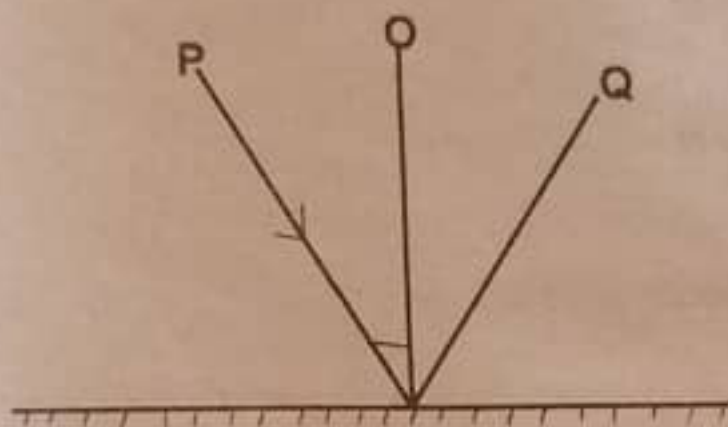
(b) Mention any **one** deficiency that affects the skeletal system

(c) Mention any **two** ways of keeping the skeletal system in a good working condition.

(i)

(ii)

50. The diagram below shows a ray of light. Use it to answer questions



(a) Name the ray marked P

(b) Using arrows, complete the ray marked Q

(c) What type of reflection is shown in the diagram?

(d) State any **one** law of reflection.

51(a) How are the following plants propagated.

(i) Onion

(ii) Cassava

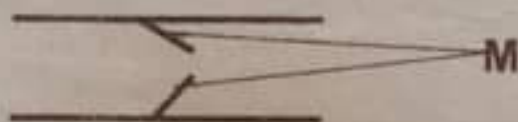
(b) Write down any **two** ways how roots are helpful to plants

(i)

(ii)

27. Give any **one** reason why nectar suckers have long curved beaks?
28. Name the recommended site distance of a pit latrine from a living house
29. Write down any **one** disease that spreads quickly through blood contact
30. Apart from hearing, mention any other use of ear to a person.
31. Give **one** reason why people should get rid of mosquitoes.
32. In which way does sun drying help to preserve cereals.
33. What is the importance of a bulb in a brooder?
34. Which part of the eye is the image formed?
35. In which way is oxygen helpful to seeds?
36. Why is breast milk better than cow's milk?
37. Name any **one** vector that is dangerous to both humans and cattle

The diagram below shows a blood vessel. Use it to answer questions 38 – 39.



38. Name the blood vessel shown in the diagram.
39. What is the importance of the structures labeled M in the blood vessel?
40. State any **one** way how a P.7 pupil can control him / herself from contracting HIV / AIDS.

(c) Why do wind pollinated flowers produce a lot of pollen grains?

(d) State the importance of pollination to flowering plants.

53. Match management practices on the cattle farm with their benefits.

	Practice (s)	Benefit (s)
(i)	Castration	Helps in identification of animals
(ii)	Ear notching	Controls external parasites
(iii)	Drenching	Prevents inbreeding among cattle
(iv)	Dipping	Controls internal parasites

(i) Castration

(ii) Ear notching

(iii) Drenching

(iv) Dipping

54. (a) Give any two causes of dehydration in the human body.

(i)

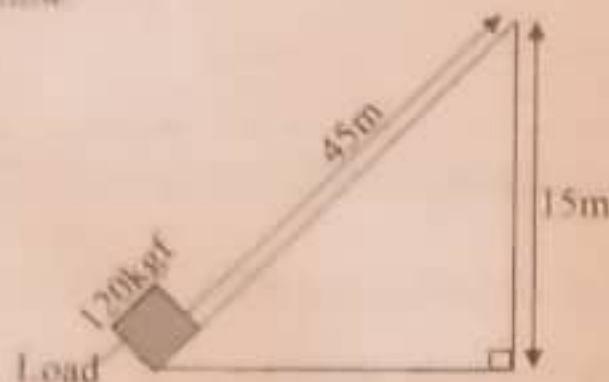
(ii)

(b) Write down any two signs of dehydration in the human body.

(i)

(ii)

The diagram below shows a simple machine. Study and use it to answer the questions that follow.



55. (a) Name the simple machine shown in the diagram above.

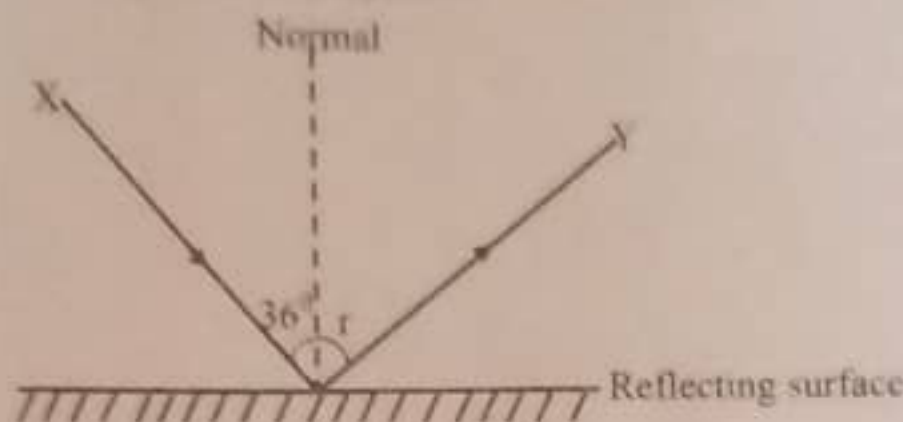
(b) State the benefit of increasing the length of the slope when using the above machine.

(c) If the above machine has a mechanical advantage of 3, how much effort was applied to raise the load?

(02 marks)

49. (a) Which type of circulation occurs in the human heart?
- (b) Give a reason why blood passes through the following organs during circulation.
- (i) Lungs.
- (ii) Liver.
- (c) How is the left side of the human heart adapted to pumping blood through a long distance?

The diagram below shows a ray of light bouncing off the surface. Study and use it to answer the questions that follow.



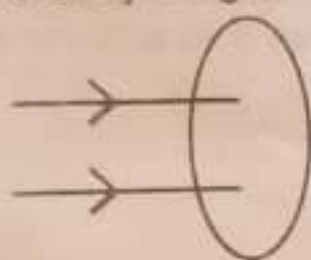
50. (a) Name the rays of light marked.
- (i) X
- (ii) Y
- (b) State the angle of reflection in the above diagram.
- (c) Give any one type of reflection.

51. Complete the table below correctly.

Nutrient (s)	Use (s)
Carbohydrates	(i)
(ii)	Improves body immunity
Proteins	(iii)
(iv)	Helps in the formation of blood

52. (a) What is pollination?
- (b) What happens to the stigma after fertilization?

13. Mention the best way of managing plastics in the environment
14. Give any one reason why a stick appears bent when dipped in a tin of water
15. State any one danger that can be solved by using carbon dioxide
16. Mention any one way how plants benefit from soil
17. Write down any one plant process that increases humidity in the environment
18. In which way does stagnant water increase the number of mosquitoes in the environment?
19. How many pairs of walking legs does an insect have?
20. Which part of a fish is compared with the nose of a human being?
21. Define frequency in sound
22. Complete the ray of light



23. Which part of the skin is responsible for producing new skin cells?
24. Write down the force that pulls objects towards the centre of the earth
25. How do conifers reproduce?
26. State any one disadvantage of fencing a cattle farm using barbed wire