

# PRE - PLE TRIAL SET VIII EXAMINATION

SUBJECT : INTEGRATED SCIENCE

CLASS : PRIMARY SEVEN

DURATION : 2 HOURS 15 MINUTES

INDEX NO. :

EMIS NO.					PERSONAL NO.		

CANDIDATE'S NAME: \_\_\_\_\_

CANDIDATE'S SIGN: \_\_\_\_\_

NAME OF SCHOOL: \_\_\_\_\_

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO**  
**READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

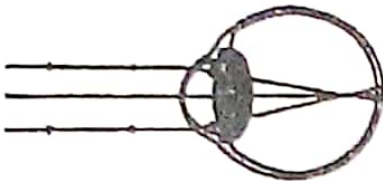
1. The paper is made up of two sections: A & B.
2. Section A has 40 questions (40 marks)
3. Section B has 15 questions (60 marks)
4. Answer ALL questions in both sections A & B
5. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink. Only diagrams should be drawn in pencil.
6. Unnecessary crossing of work will lead to loss of marks.
7. Poor handwriting, which cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes shown.

## FOR EXAMINER'S USE ONLY

PAGES	MARKS	EXAMINER'S INITIALS
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Page 3		
Page 4		
Page 5		
page 6		
Page 7		
Page 8		
TOTAL		

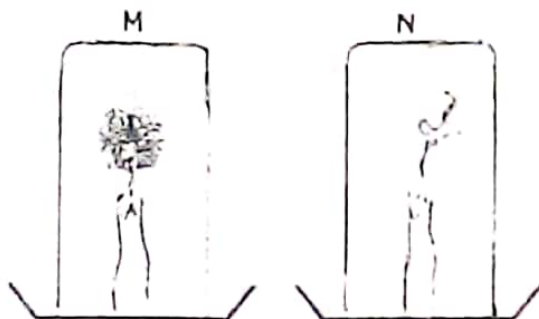
### SECTION: A

1. Mention any one element of weather that affects the rate of transpiration.
2. Which disease spread by mosquitoes affects the circulatory system?
3. Which component of soil is used by plants to make food?
4. How does friction affect cutting garden tools?
5. In which one way are bacteria useful to the soil?
6. How can you correct the eye defect illustrated in the diagram below?



7. Why is some food needed to be digested before the body is able to use it?
8. Why should a first aider be quick when giving first aid to a casualty?
9. A part from winnowing how else do crop farmers depend on wind?
10. State any one factor that can fail a fertilized egg to hatch after the incubation period.
11. Why are hinge joints compared to hinges of doors and windows?
12. How useful is a weather chart in a P. 7 classroom?
13. In what way is the body temperature of a python similar to that of a toad?

*Study the diagram below and use it to answer questions 14 and 15.*



14. What caused the candle to stop burning after some time?
15. Why did the water level rise in part N?

16. How is prolonged breast feeding useful to a mother?
17. Which thermometric liquid is used in a Six's thermometer to measure the lowest temperature in a day?
18. State the form of mechanical digestion that takes place in the stomach.
19. Which advice can be given to a breastfeeding mother to produce enough breast milk for her baby?
20. Name the solid fossil fuel.
21. How useful is the coronary artery in the circulatory system?
22. State any one common cause of sickness to children under five years in our community.

*Study the experiment below and use it to answer questions 23 and 24.*



23. Why will bottle M produce sound of the lowest pitch when air is blown in it?
24. What can be done to the three bottles to produce sound of the same pitch?
25. How useful is soil used during marcotting as a method of artificial vegetative propagation?
26. Which property of magnets is applied when resetting a Six's thermometer Using the metal index?
27. State any one secondary sex characteristic common in both adolescent girls and boys.
28. How does a primary seven girl manage her body biological changes?
29. Why is a casualty that has taken herbicides not advised to induce vomiting?



30. A bullder used an effort of 12N to raise a load of 48N. How many times did the simple machine simplify the work?
31. Why does the government carry out a health survey?
32. State any one cause Of temporary deafness.
33. How do mollusks like slugs and snails move?
34. Name any insect vector that undergoes incomplete metamorphosis.
35. State any one effect of disease to growing crops.
36. What term is used to refer to the right positioning of the body when doing any physical activity?
37. Which method of honey extraction involves heating?
38. Why does the air we breathe out have more carbon dioxide then the air we breathe in?
39. Which gland in the human skin produces Sebum?
40. State any one way a P.7 pupil can keep his/her teeth in good hygiene.

#### SECTION: B

41a) *Which crop growing practice is carried out by each garden tool named below.*

i) Garden trowel

ii) Rake

iii) Sickle

iv) Secateurs

42a) An object is placed 20cm in front of a plane mirror.

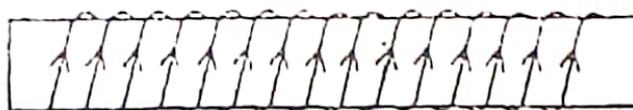
- How far will its image be formed behind the mirror?
- Give a reason to support your answer in part (a) above.
- State any **one** device that uses plane mirrors.
- Why can't plane mirrors be used to make driving mirrors?

43) Complete the table below correctly.

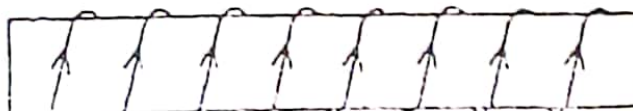
Body organ	Hormone	Function
_____	Testosterone	Production of sperm cells.
kidney	Antidiuretic hormone	_____
ovary	_____	Controls development of secondary characteristics in females
_____	insulin	Regulates blood sugars to be converted to glycogen by the liver

44. Below are two soft iron of the same size and length to be magnetized. Use it to answer questions that follow.

Soft iron P



Soft iron Q



- Which of the two soft iron will produce stronger electro magnetisation when current of the same voltage is passed through them?
- State the reason for your answer in part (a) above.
- Why are soft iron commonly used to make electromagnet?

45a) What is ECOSAN in full?

- Of what advantage is a **VIP** latrine over a conventional latrine?

d) Mention any two diseases whose spread is controlled by using latrines properly.

i)

ii)

46a) Which deficiency disease is characterized with.

i) potbelly and face like that of an old person.

ii) swollen belly and swollen lower limbs.

b) Name the deficiency disease that can be prevented by feeding on carrots and red pepper.

c) Which human body system is affected by lack of Vitamin D in children's diet?

47a) Which method of separating mixtures involves use of a funnel?

b) How is a mixture of immiscible liquids separated?

c) State the name given to a uniform mixture.

d) Mention any one example of substance that forms a uniform mixture with water.

48a) State any two health conditions that force a mother to use bottle feeding.

b) What problems are likely to be faced by a child who is only bottle fed?

c) Why are mothers who are HIV positive advised to apply exclusive feeding of their babies?

*Study the diagram below about a plant process that takes place in leaves and use it to answer questions 49.*





49a) Which plant process is illustrated above?

\_\_\_\_\_

b) Why does the above named process in part (a) take place in leaves?

\_\_\_\_\_

c) How does the illustrated process depend on the sun?

\_\_\_\_\_

e) Which kind of plants control the above process by shedding all their leaves during the dry season?

\_\_\_\_\_

50a) Which characteristic makes mammals different from all other vertebrates?

\_\_\_\_\_

b) Name the group of cold blooded vertebrates whose mode of reproduction is similar to that of mammals.

\_\_\_\_\_

c) *In what way is each group of mammals named below similar to birds?*

i) chiroptera

\_\_\_\_\_

ii) Monotremes

\_\_\_\_\_

51a) Which internal body is affected by fainting?

\_\_\_\_\_

b) What does fainting indicate?

\_\_\_\_\_

c) State any two ways one can safe guard him/her from fainting.

\_\_\_\_\_

52a) Name the vaccine that can be referred to as a triple vaccine.

\_\_\_\_\_

b) Why are vaccines administered using different body sites?

\_\_\_\_\_

\_\_\_\_\_

- c) Give the reasons why measles vaccine cannot be administered to children at birth.

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- e) Under which conditions are vaccines safely transported to immunization centres?

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53a) Which type of cattle disease is controlled by dipping cattle in acaricides?

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- b) Apart from dipping cattle how else can the spread of cattle diseases be controlled?

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- c) State any two effects of diseases to cattle.

i) \_\_\_\_\_

ii) \_\_\_\_\_

54a) *What term is given to each group of organisms in the food chain?*

i) Bacteria \_\_\_\_\_

ii) Plants \_\_\_\_\_

iii) Herbivores \_\_\_\_\_

- b) How are carnivores depend on herbivores in the food chain?

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55a) *Give the meaning of the following terms as used in drugs.*

- i) Drug prescription

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- ii) drug misuse

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- b) State any one way people misuse drugs.

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- c) In which one way is drug misuse dangerous?

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