



**VICTORY STEP EDUCATION SERVICES**  
**PRE PRIMARY LEAVING EXAMINATIONS**

**SET TWO**

*2022*

*INTEGRATED SCIENCE*

*Time allowed: 2 hours 15 minutes*

Index No					Personal No			

Candidate's name.....

Candidate's signature.....

District name.....

School name.....

**Read the following instructions carefully**

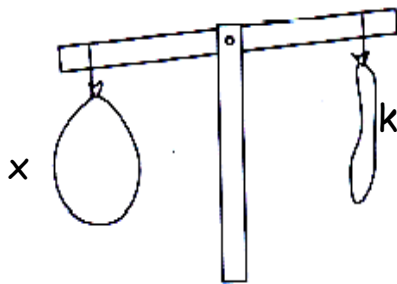
1. This paper has two sections A and B
2. Section A has 40 questions (40 marks) and  
Section B has 15 questions (60 marks)
3. Answer all questions in section A and B .  
All answers must be written in the spaces provided
4. All working must be done using a blue or black ball  
point pen or ink. Any work done in pencil will not be  
marked apart from diagrams
5. All handwriting that cannot easily be read may lead to  
Loss of marks.
6. Do not write anything in the box with EXAMINER'S USE ONLY

FOR EXAMINER'S USE ONLY		
QN.	MARKS	SIGN
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

## SECTION A

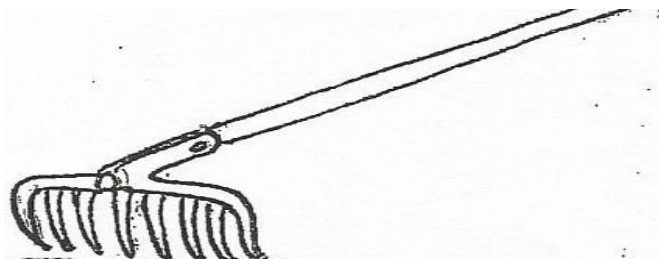
1. How do people manage rainy weather?  
\_\_\_\_\_
2. How are flowers useful to mango trees?  
\_\_\_\_\_
3. Write one quality of a good first aider.  
\_\_\_\_\_
4. How can cockroaches be controlled in our houses?  
\_\_\_\_\_
5. Give any one advantage of breastfeeding to a mother.  
\_\_\_\_\_

The diagram below shows a science experiment carried out by a P.3 class. Use it to answer questions 6.



6. Identify what the experiment shows.  
\_\_\_\_\_
7. Name any one disorder of the teeth.  
\_\_\_\_\_
8. Name any one body part where we find a hinge joint.  
\_\_\_\_\_
9. Give the purpose of wringing clothes during washing.  
\_\_\_\_\_
10. Name any one dairy breed of goats.  
\_\_\_\_\_
11. In which units is fuel like paraffin sold at fuel stations?  
\_\_\_\_\_

The diagram below shows a garden tool. Use it to answer questions 12 and 13.



12. Give the use of the tool above to farmers.  
\_\_\_\_\_
13. How do farmers care for the tool shown above?  
\_\_\_\_\_

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14. Which kind of vitamin improves our eye sight?

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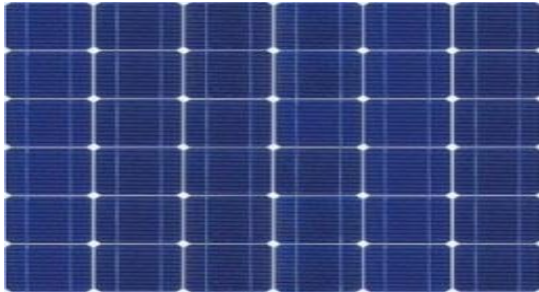
15. Of what use are electric bells in a school?

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16. Write any one element of Primary Health Care.

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The diagram shows the device used to trap sunlight. Use it to answer questions 17 and 18.



17. Identify the device shown above.

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18. State the energy change that takes place in the above device.

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19. Which type of flowering plants is a maize plant?

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20. Which property of air enables us to fill bicycle tyres with air?

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21. Why do houseflies lay their eggs in decaying matter?

---

22. Which device at a waterfall produces hydroelectricity?

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23. A piece of metal has a mass of 160g. Its volume is  $20\text{cm}^3$ . What is its density?

---

24. Give the functional difference between a barometer and a thermometer.

---

25. Write the advantage of having a longer effort arm than the load arm when using a first class lever.

---

26. Why is pure water not good for drinking?

---

27. Give the first aid got when an insect has entered the ear.

---

28. In which state of matter does sound travel fastest?

---

29. Why is the moon not a natural source of light?

---

30. Give the purpose of immunizing pregnant mothers with TT vaccine.

---

31. Why should babies be fed on soft foods?

---

32. Which vector spreads relapsing fever in people?

33. Why is a frog regarded to be a cold blooded animal?

34. Give the difference between capacity and volume.

35. Name the plant system that develops from a radicle.

36. Give one way of managing floods.

37. How are blood capillaries useful in humans?

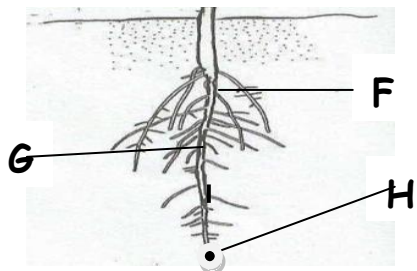
38. Name any one reason people give for drinking alcohol.

39. Name the material used for providing proper first aid to burns.

40. How does the improper use of latrines lead to diarrhoeal diseases?

### **SECTION B: 60 MARKS**

40. The diagram below shows a root system. Use it to answer questions 41.



a) Identify the part marked F.

\_\_\_\_\_

b) Give one function of each of parts labelled G and H.

G. \_\_\_\_\_

H. \_\_\_\_\_

c) Name one plant with such a root system.

41. Match the deficiency disease to their causes correctly.

#### **Deficiency disease**

scurvy

night blindness

anaemia

rickets

#### **Cause**

lack of vitamin D

lack of iron

lack of vitamin C

lack of vitamin A

- \_\_\_\_\_ Lack of vitamin D
- \_\_\_\_\_ Lack of iron
- \_\_\_\_\_ Lack of vitamin C
- \_\_\_\_\_ Lack of vitamin A

42. a) Why is hepatitis B regarded to be a contagious disease?

b) Which human body organ is affected by hepatitis B?

c) Give any one sign of hepatitis B.

d) Write the vaccine used to prevent hepatitis B.

43. a) Mention one method of rearing goats.

b) Give one advantage of rearing goats using the above method.

c) Give one disadvantage of using the method in a) above.

d) Name any one goat breed reared for mohair.

44. a) Write any one way soil is formed.

b) Mention one living component of soil.

c) Write any two ways people degrade soil.

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

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

45. a) Name any two examples of conifers.

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

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

b) How do conifers reproduce?

c) Give one use of conifers to people.

47. The diagram below shows bottles with different water levels. Use them to answer questions 43.



a) which bottle will produce sound of the;

- i) highest pitch \_\_\_\_\_
- ii) lowest pitch \_\_\_\_\_
- b) What can you do to bottle **H** to produce the same sound as bottle **G**?  
\_\_\_\_\_
- c) How does a bottle produce sound?  
\_\_\_\_\_

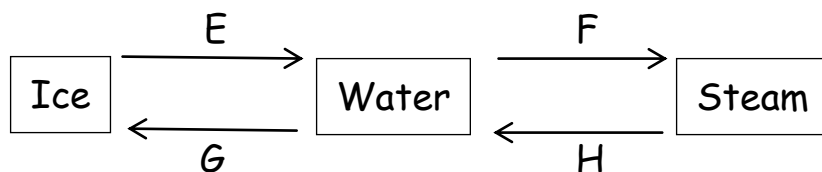
The diagram below shows a crop. Use it to answer question 48.



- a) Name the part labeled R.  
\_\_\_\_\_
- b) Why is the above plant regarded to be a perennial crop?  
\_\_\_\_\_  
\_\_\_\_\_
- c) How do people harvest the above crop?  
\_\_\_\_\_
- d) Which food value is got from the above crop?  
\_\_\_\_\_

49. a) What is agro-forestry?  
\_\_\_\_\_
- b) Outline any two advantages of agro-forestry to farmers.  
i) \_\_\_\_\_  
ii) \_\_\_\_\_
- c) Which method of tree harvesting is the best for a farmer who grows trees and crops in the same garden?  
\_\_\_\_\_

50. The information below shows physical process and results obtained. Use it to answer question 50.



a) Identify the physical process labeled E and G.

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

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

b) In which state of matter is steam?

c) Which form of energy is needed for process F to occur?

51. a) Write any one type of erosion.

b) Mention one cause of soil erosion.

c) Give one way we control soil erosion in our compounds?

d) How is soil erosion dangerous in the environment?

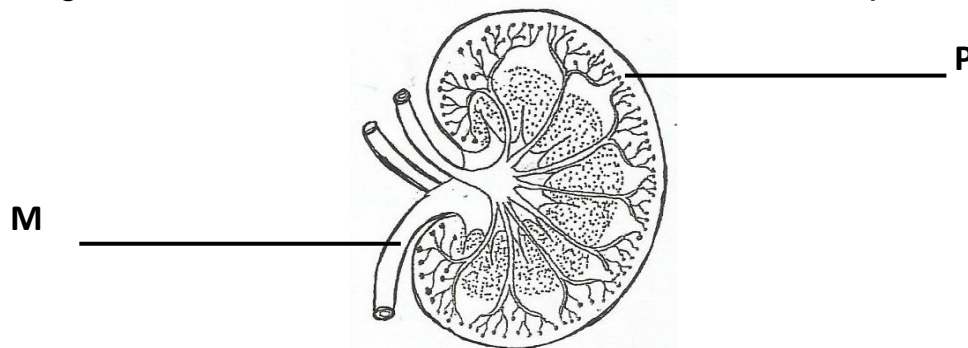
52. a) What is an eye defect?

b) Apart from myopia, name any other eye defect.

c) Give the cause of myopia.

d) How is myopia corrected?

53. The diagram below is of a body organ. Use it to answer question 53.



a) State the function of the parts marked P and M.

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

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

b) Mention any one health practice that keeps the body organ in a good condition.

c) Write one disease that attacks the body organ above.

54a) Name any two garden tools used in preparing land.

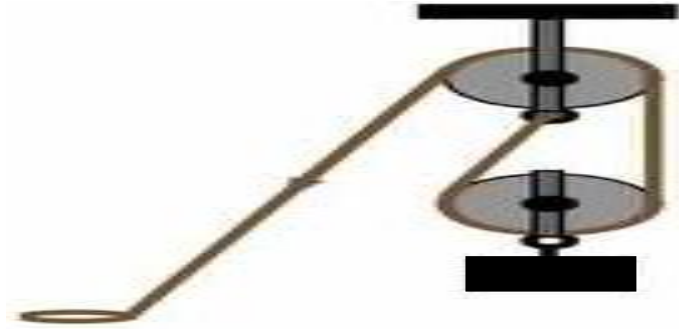
i) \_\_\_\_\_

- ii) \_\_\_\_\_
- b) Why are the following garden practices carried out?

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

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

55. The diagram below shows a type of pulley. Use it to answer questions 54.



a) Identify the type of pulleys shown above.

b) Give the mechanical advantage of the above pulley.

c) Give any two uses of pulleys to people.

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

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