



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

*2022*

*INTEGRATED SCIENCE*

*Time allowed: 2hours 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(40marks) and**

**Section B has 15 questions(60marks)**

**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 workdone in pencil will not be marked apart from diagrams**

**5.All handwriting that cannot easily be read may lead to Loss of marks.**

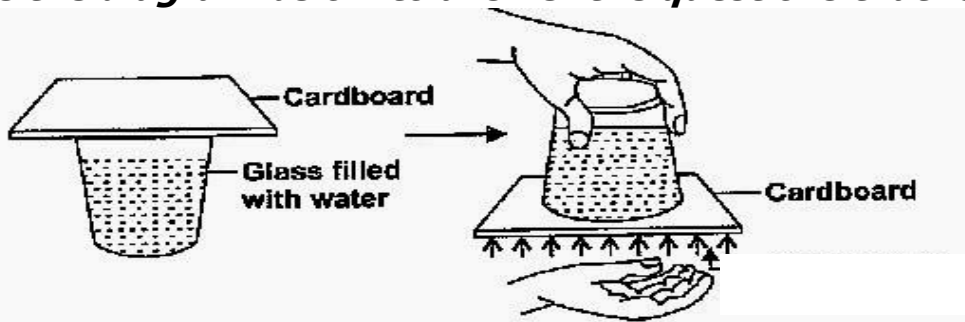
**6.Do not write anything in the box with EXAMINER'S USE ONLY**

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(40 Marks)

1. Where does digestion of food end?  
.....
2. Name a domestic animal that spreads rabies to people.  
.....
3. How is polio vaccine given to people?  
.....
4. State the meaning of stem tubers.  
.....  
.....
5. How are bacteria important in the production of yoghurt?  
.....
6. Why is it advisable to build houses with ventilators?  
.....
7. State one reason why people plant trees in the environment.  
.....
8. What do we call changes that take place in living things?  
.....
9. Mention one breed of sheep kept for wool production.  
.....
10. Mention the disease that attack the udder of a cow.  
.....
11. Give any one disadvantage of bottle feeding to a child.  
.....

***Use the diagram below to answer the questions that follow.***



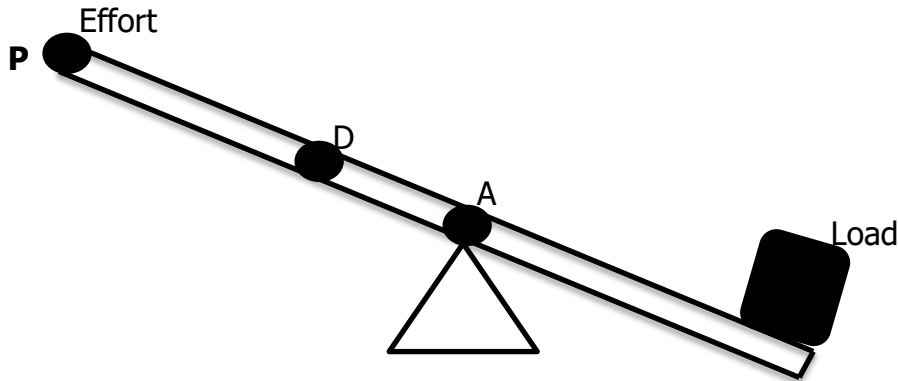
12. How is the above property of air important to a child playing with a kite?  
.....
13. What do the arrows in the above experiment represent?  
.....
14. How are warm blooded vertebrates different from cold blooded vertebrates?  
.....  
.....
15. State one danger of listening to loud sound.  
.....
16. Which blood vessel carries blood from lungs to the lungs?  
.....

17. Give the function of a micropyle to a germinating seed

18. What type of farming should a farmer use in order for a farmer to harvest both crops and wood.

19. Name the part of a flower that holds the anther head.

**Use the diagram below to answer questions 20, 21 and 22.**



20. Show on the diagram with an arrow the direction of movement of the effort at P as the load is being lifted.

21. At which of the two points D and P shown on the diagram will less effort be used to lift the load.

22. Give a reason for your answer in 22 above.

23. Why does **1kg** of iron have less volume than **1kg** of cotton wool?

24. In which state of matter does heat travel by convection?

25. How are houseflies able to spread cholera among people?

26. In which way does the cutting of trees lead to soil infertility?

27. Give any one example of a crop storage pest apart from weevils.

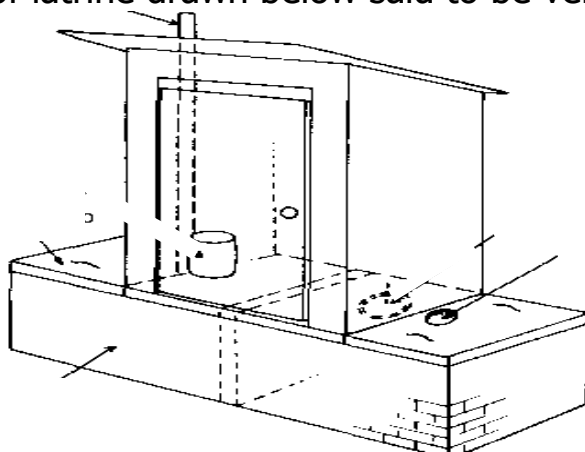
28. State any one effect of air pollution on people.

29. Why do tyres of cars wear out quickly on tarmac roads than murram roads?

30. In which way is passive smoking different from active smoking?

31. Which group of non - flowering plants reproduce by means of seeds?

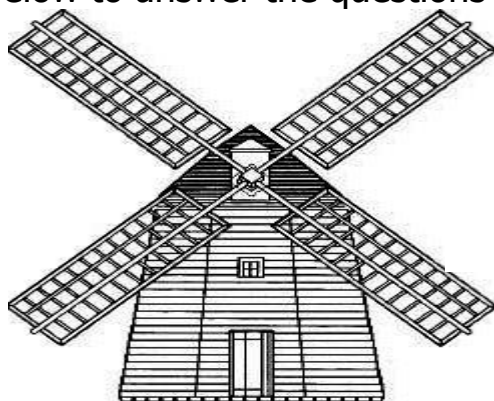
32. Write down any one quality of a good cattle house.  
.....
33. Why are expectant mothers regarded as vulnerable groups of people?  
.....
34. Give one danger of using kerosene lamps to light bedrooms.  
.....
35. How do plants make use of the gas produced by animals during respiration?  
.....
37. Apart from boiling, give one other method of making water safe for drinking.  
.....
38. Why should the legs of a person who has fainted be raised slightly higher than the head?  
.....
39. Why is the type of latrine drawn below said to be ventilated and improved?



40. State the energy change that takes place in the dry cell when the circuit is complete.  
.....

### **SECTION B(60MARKS)**

41. Use the diagram below to answer the questions that follow about it.



- a) Which energy resource in the environment does the above device use to provide useful energy?  
.....
- b) How is electricity produced by wind mill important in the environment?  
(i).....  
(ii).....

c) State the function of the generator in producing electricity from wind.

42. List any two ways in which machines simplify work.

- (i).....  
(ii).....

b) To which group of levers does a see saw belong?

c) In which way are first class levers different from third class levers?

43a) What name is given to a broken or cracked bone in the body?

b) Give two things you can do to a person with a broken or cracked bone in the body.

- i) .....  
ii) .....

c) Name the structure used by a first aider to carry a casualty who cannot walk.

44. Study the table below and answer the questions that follow.

List A	List B
Tilapia	Rat
Frog	Goat
Crocodile	Lion
Dove	Whale

a) What is the similarity in the way animals in list A reproduce?

b) To what class of vertebrate animals do those in list B belong?

c) In which way is a tilapia in list A similar to a whale in list B?

d) What is common about the animals in list A and list B?

45. What is the importance of taking children for immunisation?

b) Which vaccine is given to children after 270 days?

c) Give two ways in which a child health card is important to a doctor.

- i) .....  
ii) .....

46. State the function of the bicuspid valves in the heart.

b) How is blood carried by the left part of the heart different from the one carried by the right part of the heart?

.....  
.....  
c) Give two ways of increasing the volume of blood in the body.

- i).....  
ii).....

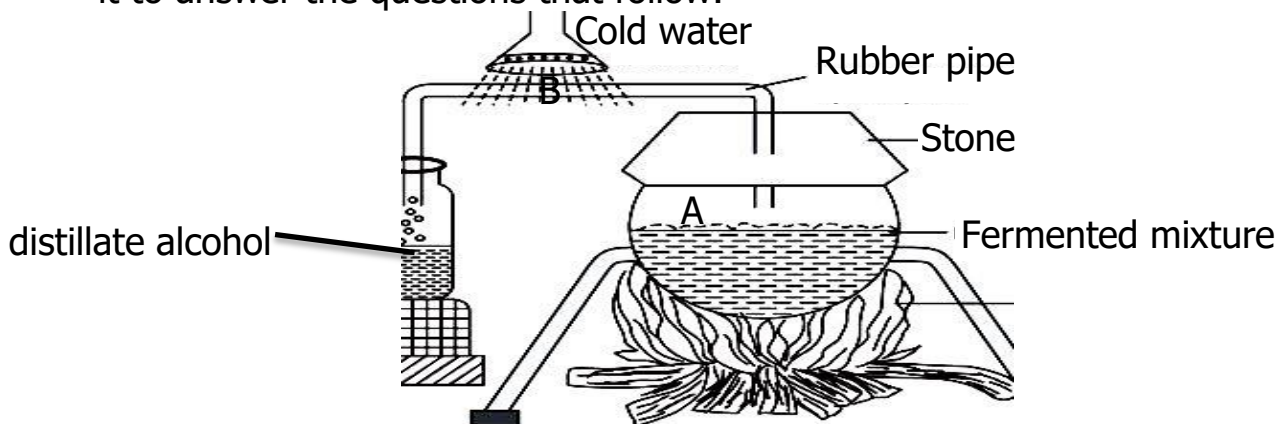
47a) Which form of energy is produced by the vibration of an object?

.....  
b) State the difference between pitch and volume of sound?

.....  
c) In which two ways are echoes important to people?

- i).....  
ii).....

48. The diagram below shows a method of obtaining pure alcohol. Study it carefully and use it to answer the questions that follow.



a) Identify the physical process taking place in container A and B

- i) A.....  
ii) B.....

b) Give the reason why the rubber pipe is passed through cold water?

.....  
c) What is the role of the stone in the diagram above?

.....  
49a) Give the role of each of the following during seed germination.

- i) Oxygen.....  
ii) Moisture.....

b) Apart from oxygen and moisture, give any other condition necessary for seed germination.

.....  
c) How is the germination of a bean seed different from that of sorghum and millet?

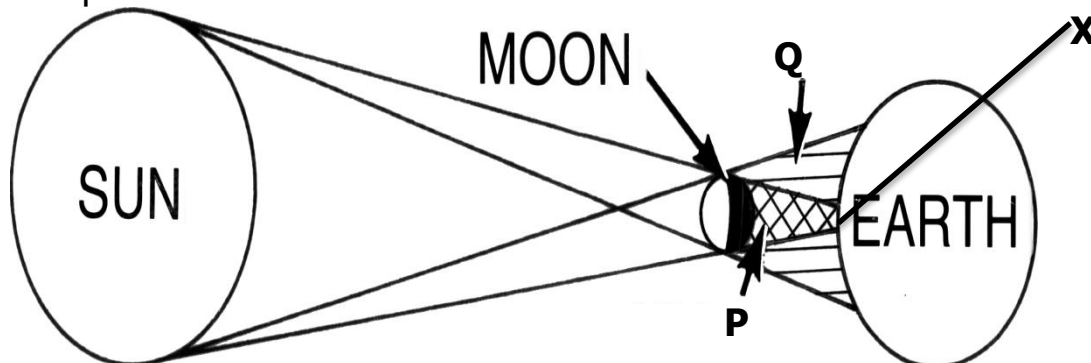
.....  
50a) Name any two plants that store their food in leaves.

- i).....  
ii).....

b) Why is a sugar cane not called a stem tuber yet it stores its food in the stem?

c) Give one way of caring for stem tubers in the garden

51. The diagram below shows a type of eclipse. Study and use it carefully to answer the questions that follow.



a) Name the type of eclipse shown in the diagram above.

b) Name the shadows marked P and Q.

P.....

Q.....

c) What happens to a person who would be in part X during the eclipse?

52a) What force makes a pencil to reduce in length as one writes?

b) Name the form of energy produced by the force in (a) above as one writes.

c) Give any two disadvantages of the force you have named in (a) above to the writer.

i) .....

ii) .....

53a) State the element of PHC which is promoted by the following activities.

i) Feeding on a balanced diet.....

ii) Immunising a child against pneumonia.....

iii) Picking rubbish in the compound.....

iv) Doing regular body exercises.....

54a) Give any two ways in which mulching is important to the soil.

i) .....

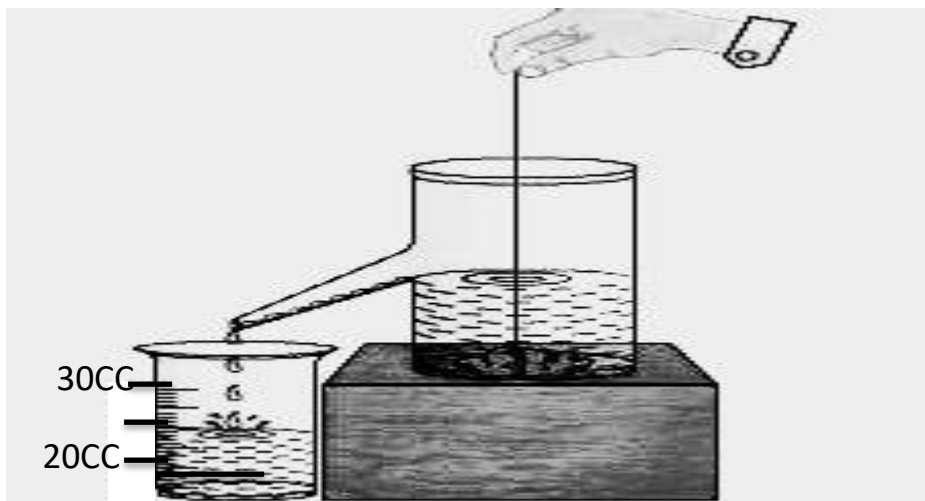
ii) .....

b) Give two ways in which mulching can be of a disadvantage to a crop farmer.

i) .....

ii).....

55. An experiment below was done by P.7 class. Use it to answer the questions that follow.



a) When is such method of finding volume used?

.....

b) If the object above has a density of  $2\text{g/cc}$ , find its mass( 03mks)