PRIMARY SEVEN PRE- REGISTRATION SET 3

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's name: .....

Candidate's signature: .....

District : .....

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. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will NOT be marked.
6. Unnecessary crossing out of answers will lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Wrong spelling will lead to loss of marks

FOR EXAMINERS USE ONLY		
QN. NO	MARK	SIGN
1 - 10		
11 - 20		
21 - 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50– 52		
53 – 55		
TOTAL		

SECTION A

1. Mention **one** property of air.

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   .....

2. How can mulching be a danger in a garden?

   .....

   .....

3. State **one** positive effect of breezes in our environment.

   .....

   .....

4. Name the vector that spreads trachoma to humans.

   .....

   .....

5. State the importance of osmosis in plants.

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   .....

6. How do some religious beliefs affect agricultural production in Uganda?

   .....

   .....

7. State one importance of ventilators on a living house?

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   .....

8. Give one reason why fish can be classified in the same group with man.

   .....

   .....

9. Define the term "**force**".

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10. Identify the cause of fainting in human beings.

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11. How does pruning reduce the rate of transpiration?

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12. Identify the structural difference between a red blood cell and a white blood cell.

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13. Why doesn't sound pass through a vacuum?

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14. **In the space provided below, draw the male part of the flower.**

15. How does painting prevent metals from rusting?

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16. **The diagram below is of a flying bird. State one way it is adapted to flying in the air.**

.....

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17. Give one example of a flightless bird.

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18. Where does absorption of digested food take place?

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19. Mention one defect of the ear.

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20. What happens to a metal when it is heated?

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21. How is vaccination useful to people in Uganda?

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22. In which way can farmers preserve crops like beans, maize etc. for use in another season?

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23. Give one reason why some people smoke.

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24. Mention one example of a synthetic fibre.

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25. How are molar teeth adapted to their function of grinding food?

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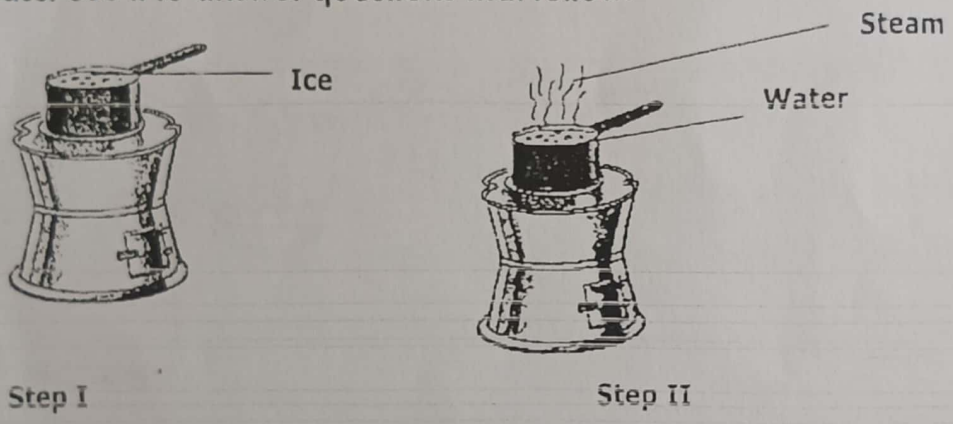
26. **The diagram below shows an experiment that was performed by a P.5 class. Use it to answer questions that follow.**



What was the experiment trying to prove about water?

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27. Name the form of energy used in the experiment.

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28. Why is silicon used to make solar panels?

.....

.....

29. Why does the same amount of tea in a plate cool faster than that in a cup?

.....

.....

30. Which stage of a housefly is dangerous to human beings?

.....

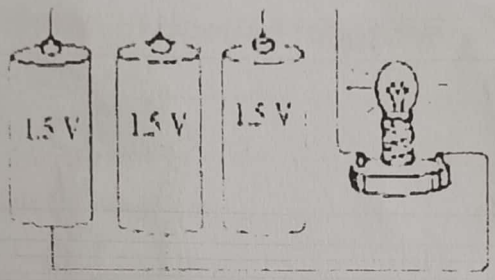
.....

31. Give a reason for your answer in (30) above

.....

.....

32. **Find the total voltage produced in the electric circuit shown below.**



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33. In only one sentence, describe the importance of kidneys to a boy.

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.....

34. State one health problem that a girl of P.7 can face when she becomes pregnant.

.....

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35. How do physical exercises help improve the health of human beings.

.....

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36. Explain why the heart is an important organ to man.

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37. Name one natural hazard that affects the environment negatively.

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38. State one way animal wastes are used as an energy resource.

.....

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39. How is a stem useful to a plant?

.....

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40. State one way fermentation is useful in a community.

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SECTION B

41(a) Identify two ways cattle are useful in our society.

(i) .....

(ii) .....

(b) Mention any two problems faced by cattle farmers in Uganda today.

(i) .....

(ii) .....

42(a) Mention any two activities that community members should perform on a **'Malaria Day'**.

(i) .....

(ii) .....

(b) State the vector that spreads malaria.

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(c) Mention the effect of malaria on the circulatory system.

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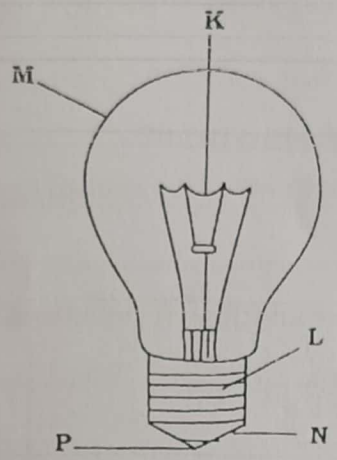
43. **The diagram below shows an electric lamp.**



(a) State one form of energy produced by the lamp bulb.

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(b) Name one gas that may be enclosed by **M**.

.....

.....

(c) Name the part marked **K**.

.....

.....

(d) Identify any **one** type of electric lamps?

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44(a) The table shows a food substances and their end products during digestion. Complete it correctly.

Food Substance	End Product
Proteins	.....
Carbohydrates	.....
Fats	.....

(b) State the use of proteins in the body.

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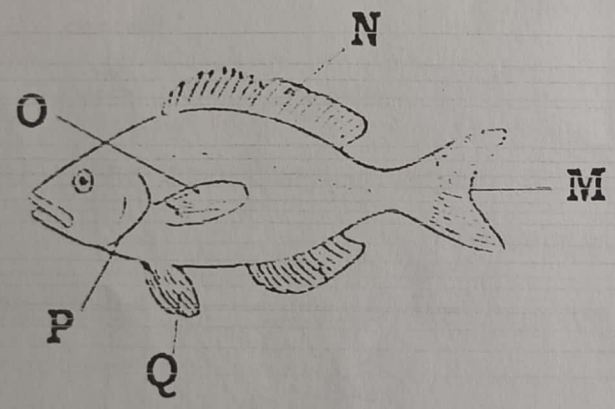
.....

45. The diagram below shows a common animal.



(a) Name the habitat for the animal above.

.....

(b) Name the parts marked N and O?

N .....

O .....

(c) Why does the above animal die soon after being removed from water.

.....

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46. State the importance of the following in the human body.

(a) Bone marrow:

.....

.....

(b) Tendon:

.....

.....

(c) Ligament:

.....

.....

(d) Vertebral column:

.....

.....

47(a) Which device changes the mechanical energy of running water a dam to electricity?

.....

.....

(b) Mention the type of electricity obtained in this way.

.....

.....

(c) How does this electricity reach a consumer in Arua?

.....

.....

(d) State the importance of wire insulation in our houses.

.....

.....

48(a) Mention the two types of reproduction.

(i) .....

(ii) .....

(b) Where in females does the conception take place?

.....

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(c) Why are women and girls of childbearing age advised to eat a lot of green vegetables?

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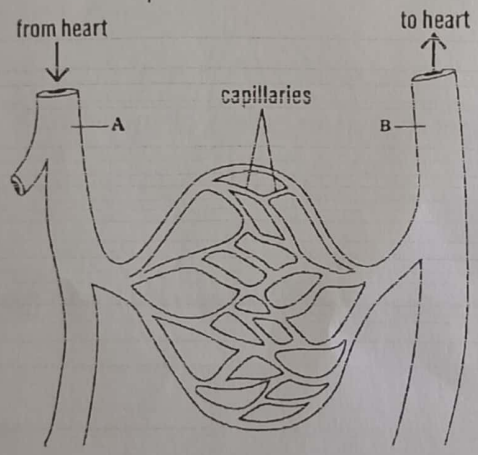
49. **Use the diagram below to answer questions that follow.**



(a) What general name is given to the blood vessel shown in the diagram marked **A.**

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(b) State one importance blood vessels in the human body.

.....

.....

(c) Give one functional difference between veins and arteries.

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.....

(d) Which blood cell is affected by sickle cells?

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50 a) Give the meaning of each of the following terms:

(i) Germination

.....

.....

(ii) Transpiration

.....

.....

(b) How important is oxygen during germination?

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.....

(c) Give one situation when a seed may fail to germinate.

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51(a) Kelly opened a bottle of soda and a gas that put out a glowing matchstick escaped.

(i) Name the gas.

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.....

(ii) Why was the glowing matchstick put out?

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.....

(b) Kelly picked another bottle of soda from a refrigerator. A few minutes later, water was seen dripping from the surface of the bottle. Explain why it was so?

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.....

(c) Why is freezing considered a physical change?

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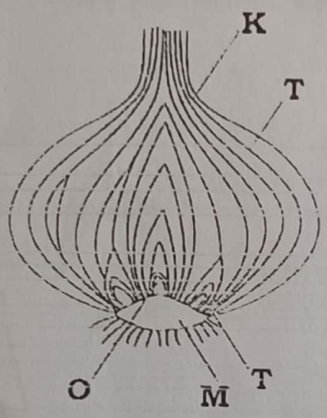
.....

53. The diagram below shows an onion.



(a) Name the parts:

O .....

M.....

(b) How part T important to the plant?

.....

.....

(c) How are onions propagated?

.....

.....

53(a) How has poverty among the local population led to environmental degradation?

.....

.....

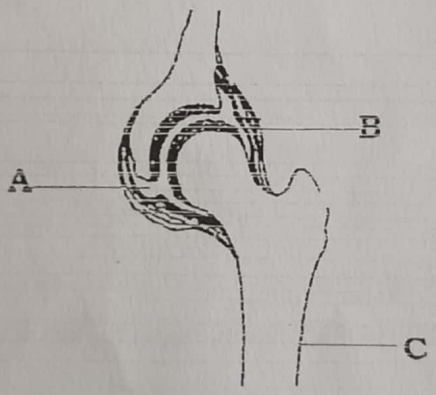
(b) Mention three human activities that are dangerous to the environment.

(i) .....

(ii) .....

(iii) .....

54. **The diagram below shows a joint. Use it to answer the questions that follow.**



(a) Name the type of movable shown above

.....

.....

(b) How is the part marked **B** important at a joint?

.....

.....

(c) Mention any one place in the body where such a joint is found.

.....

.....

(d) In which one way are joints important to the body?

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.....

55. **Match items in A with those in B in reference to the dry cell.**

	A		B
(i)	Positive element	-	Zinc can
(ii)	Depolarizer	-	Carbon rod
(iii)	Electrolyte	-	Brass cap
(iv)	Negative element	-	Ammonium chloride jelly
		-	Manganese dioxide

(i) Positive element.....

(ii) Depolarizer .....

(iii) Electrolyte.....

(iv) Negative element.....

END