



HORMISDALLEN SCHOOL - GAYAZA

PRE- P.L.E EXAMINATION SET 4

INTEGRATED SCIENCE

Time allowed: 2 hours 15

NAME: _____

INDEX NUMBER:

5	3	7	9	9	5			
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Signature: _____

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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)
Section **B** has 15 questions (60 marks)
3. Answer all questions. All questions to both Sections **A** and **B** must be written in the spaces provided.
4. All answers must be written using a blue or black ball-point pen or fountain pen.
5. Unnecessary changes of work may lead to **loss** of marks.
All diagrams must be drawn in pencil.
6. Any handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated:

FOR EXAMINER'S USE ONLY

Qn. No.	MARKS	EXRS' IN.
1 – 20		
21 – 30		
31 – 50		
51 – 53		
54 – 55		

Turn over

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SECTION: A

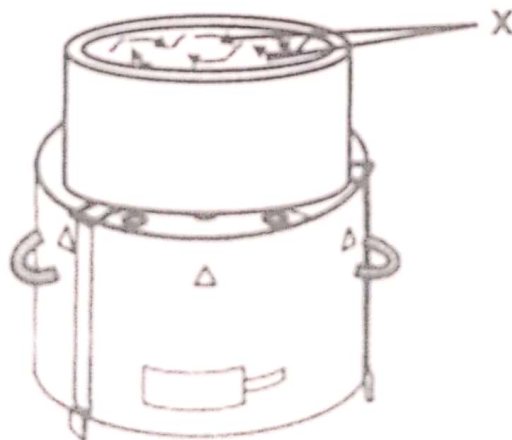
1. Name the gas that occupies the greatest part of the atmosphere.

2. Which body organ filters blood?

3. How does sleeping under a treated mosquito net prevent malaria?

4. Janet harvested rain water from the roof using a bucket. How can such water be made safe for drinking?

The diagram below shows a method John used to prepare milk for his children. Use it to answer question 5 and 6.



5. What do arrows marked X indicate?

6. How does the method above help prepare milk?

7. Name any one mammal that does not give birth to live young ones.

8. Give any one bad habit practiced by learners in a classroom.

9. What type of change occurs when a gecko moults?

10. Give one danger of excessive use of artificial fertilizers.

A baby was identified with the following signs; sore throat, swollen neck and difficult breathing.

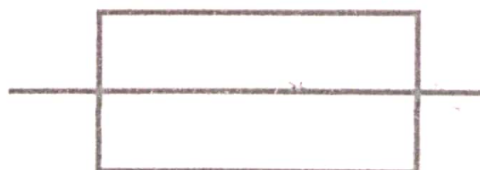
11. Name the disease the baby above was suffering from.

12. Mention one example of a non-flowering plant that reproduces by seeds.

13. Give one reason why teeth clipping is encouraged in piggery farming.

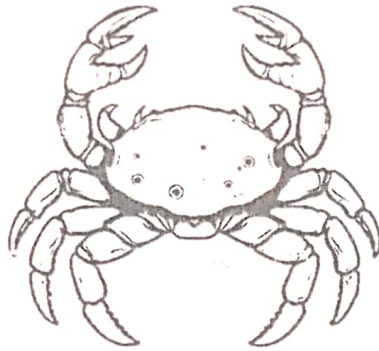
14. How does synovial fluid at a joint reduce friction?

Below is a diagram showing one of the components of an electric circuit.
Use it to answer questions 15 and 10.



15. Name the above component.
-
16. State the use of the above component in a complete circuit.
-
-
17. How does rusting benefit the environment?
-
-
18. Give any one way to address inadequate water supply in the community.
-
-
19. Mention any one essential drug that helps in the prevention of diseases.
-
-
20. State any one feature that eases absorption of food in the ileum.
-
-
21. Name any one exhaustible renewable resource.
-
-
22. Identify the method of honey extraction that involves the use of heat.
-
-
23. Give any one role of children at home.
-
-
24. State one way a crop farmer can overcome the effects of drought.
-
-

Below is a diagram showing an invertebrate. Use it to answer questions 25 and 26.



25. Name the invertebrate shown above.

26. How is the invertebrate above similar to a fish in terms of breathing?

27. Which type of teeth is missing in milk teeth?

28. Identify the method of separating a mixture of stones and rice.

29. Give any one way in which the soil benefits earthworms.

30. State one reason why a convalescent needs a lot of proteinous foods.

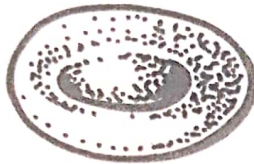
31. Mention the type of cattle kept in a ranch.

32. In which one way are bacteria useful to man?

33. Give any one way of collecting health data in a community.

34. How do crop farmers benefit from the process of condensation?

The diagram below shows a blood component. Study it carefully and use it to answer questions 35 and 36.



35. State the function of the component of blood shown above.

36. Which communicable disease affects the above component of blood?

37. Identify any one use of stored sound.

38. Name the element of PHC promoted by picking rubbish from the school compound.

39. Give one way in which the use of machines eases work.

40. How do hooks help the seeds of a black jack to be dispersed by animals?

SECTION: B

41. Below is an illustration showing a feeding relationship. Use it to answer questions that follow.

Grass —————→ **Rabbit** —————→ **Dog**

- (a) Identify the feeding relationship shown above.

- (b) Name the;

- (i) Producer

- (ii) Secondary consumer

- (c) Give one reason why bacteria are necessary in above feeding relationship.

42. In four sentences explain how expiration occurs in human beings.

(i) _____

(ii) _____

(iii) _____

(iv) _____

43. Match the following animals and the meat obtained from them.

Animal

Products

Cow

chevon

Sheep

pork

Pig

mutton

Goat

beef

- (i) Cow

- (ii) Sheep

- (iii) Pig

- (iv) Goat

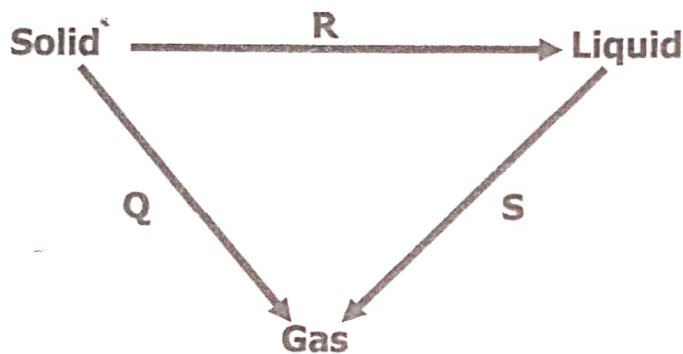
44. (a) Give any two tuber crops grown by cuttings.

(i) _____ (ii) _____

(b) Why is earthing up practised in tuber crop growing?

(c) Give one way of controlling tuber crop pests without using chemicals.

45. **Below is a diagram showing changes in the states of matter.**



(a) Name the processes **R** and **S**.

(i) **R** _____

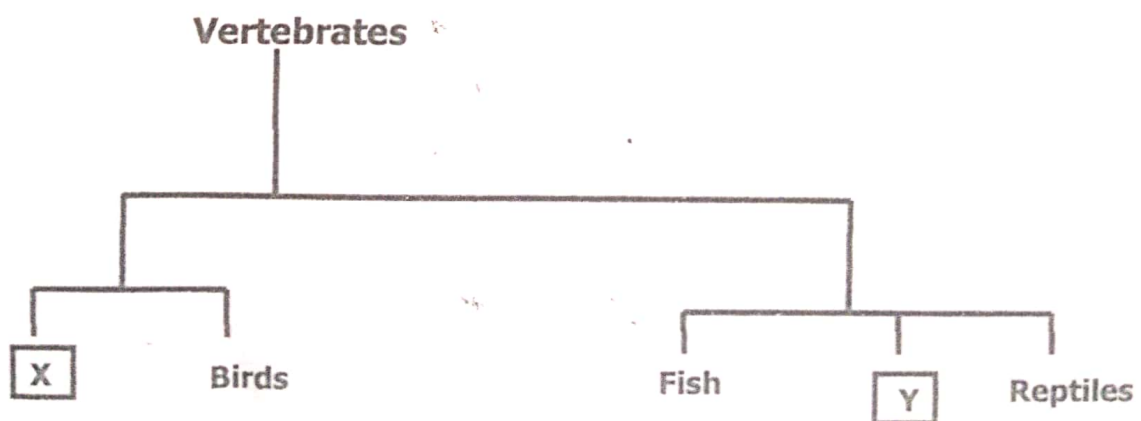
(ii) **S** _____

(b) Give any two substances that can undergo through the process marked **Q**.

(i) _____

(ii) _____

46. **The chart below shows classification of vertebrates. Use it to answer questions that follow.**



(a) Name the class of vertebrates marked Y.

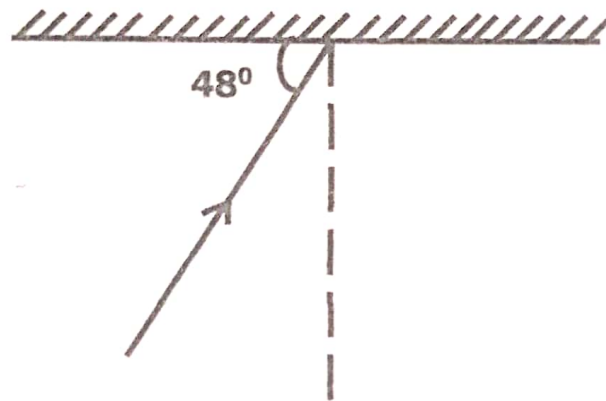
(b) How are birds similar to reptiles in terms of reproduction?

(c) Give any two aquatic vertebrates that belong to animals in group X.

(i) _____

(ii) _____

47. The diagram below shows a ray of light striking a plane mirror. Use it to answer questions that follow.



(a) Complete the diagram to show the reflection.

(b) Calculate the size of the angle of reflection.

(2mks)

(c) How is reflection of light useful to a primary seven pupil?

48. (a) Give any two reasons why health parades should be conducted at school.

(i) _____

(ii) _____

(b) Mention any one member of a school health committee.

(c) State any one role of a school health committee.

49. (a) Identify any two causes of soil exhaustion.

(i) _____

(ii) _____

(b) Give two ways in which soil can regain its fertility naturally.

(i) _____

(ii) _____

50. (a) Name the class of food whose chemical digestion begins from;

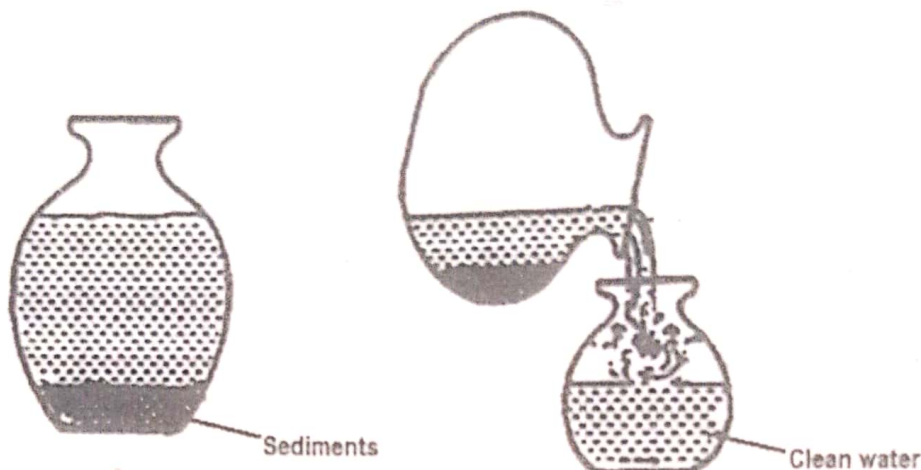
(i) Mouth

(ii) Stomach

(iii) Duodenum

(b) What is the role of roughages during food digestion?

51. The diagram below shows a method of obtaining clean water. Use it to answer questions that follow.



- (a) Name the method of cleaning water shown above.
- _____
- (b) Give two uses of clean water obtained.
- (i) _____
- (ii) _____
- (c) Apart from above method, give another method of cleaning water at home.
- _____
- _____
52. (a) Which chemical in tobacco smoke causes lung cancer?
- _____
- (b) State any one reason why people smoke.
- _____
- _____
- (c) Give any two life skills that can safeguard a P.7 pupil against tobacco smoking.
- (i) _____
- (ii) _____
53. (a) Give any two fungal diseases that affect human beings.
- (i) _____
- (ii) _____

(b) State the role of yeast in the following process;

(i) fermentation of alcohol

(ii) baking of bread

54. To which group of simple machines does each of these machines belong?

(a) Panga

(b) Egg beater

(c) Pair of scissor

(d) Ramp

55. (a) Name the type of immunity got through breast feeding.

(b) Why should HIV positive mothers be discouraged from breast feeding their babies?

(c) How is prolonged breast feeding an advantage to the mother?

(d) Give one condition that can make a baby totally depend on bottle feeding.

-12-

END