

CREATIVE EDUCATIONAL SERVICES

END OF TERM ONE EXAMINATION

2024

PRIMARY SIX

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index Number	Admission number						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

District Name:

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. Do not write your **school** or **district name** anywhere on the paper.
2. This paper has **two** sections: **A** and **B**. Section A has **40** questions (40marks) and Section B has **15** questions (60 marks). The paper has **8** printed pages.
3. Answer **ALL** questions. All answers 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 ink. Diagrams should be drawn in pencil.
5. Unnecessary crossing of work and any handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the boxes indicated; **For Examiner's use only.**

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1-10		
11-20		
21-30		
31-40		
41-43		
44-45		
46- 48		
49-50		
51- 53		
54- 55		
TOTAL		

1. Give the main use of feelers to an insect.

2. State **one** way in which sunshine may be a disadvantage to a crop farmer.

3. In which state of matter does heat travel by conduction?

4. Apart from making food, state any other function of leaves to a plant.

5. State any **one** importance of hind limbs to the primates

6. Mention **one** importance of a web to the spider.

7. How is a fish and a frog similar in the way they reproduce?

8. Name any **one** kingdom of living things apart from animal kingdom.

9. How does a grasshopper differ from a bee in terms of life cycle?

10. Suggest any **one** method used to improve soil fertility.

11. How are worker bees important in crop farming?

12. Give any **one** way the body can acquire immunity.

13. How does greasing of metal parts prevent them from rusting?

14. Which part of the human ear maintains body posture?

15. Name the garden tool used for transplanting seedlings.

16. How are earthworms useful to soil?

17. Why is freezing regarded as a physical change?

18. What does a germinating seed use for taking in water and air (oxygen)?

19. State any **one** characteristic which disqualify arachnids from being grouped as insects.

20. Suggest any **one** way in which a school garden is important to a community.

21. How is sound produced?

22. Why does an empty bottle float on water?

23. Write down any **one** element of Primary Health Care.

24. What is the gestation period of a rabbit?

25. How are the gills of a mushroom important to it?

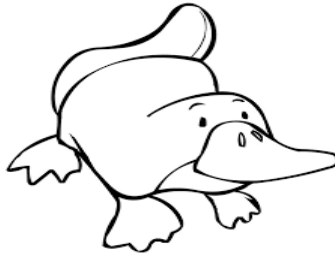
26. Why does a millipede coil when disturbed?

27. State any **one** example of a water cleaned disease.

28. Write down any **one** property of air.

29. Give **one** disease which has increased the number of extended families in Uganda.

Below is a diagram of a mammal. Study and use it to answer questions 30 and 31.



30. Name the mammal shown above.

31. State any **one** way in which the mammal above is different from the rest of other mammals.

32. Which term means water in solid form?

33. Name the male part of a flower.

34. Name any **one** breed of rabbits kept in Uganda.

35. State any **one** way of controlling pests.

36. Mention any **one** value of soil to people.

37. Why is overgrazing regarded as a dangerous practice in agriculture?

38. By what process can we get juice out of oranges?

39. Why do objects thrown in air fall back on the ground?

40. An object has a mass 15gm and a volume 30CC. Calculate its density.

SECTION B

41(a) What are birds of prey?

(b) Write down any **two** examples of scavenger birds.

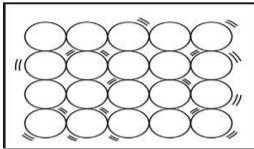
(i) _____

(ii) _____

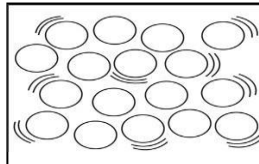
(c) Give any **one** way by which birds are adapted to flying.

42 (a) What is matter?

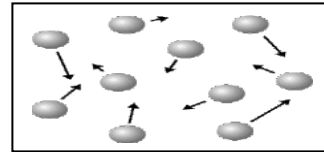
(b) Name the states of matter below according to the arrangement of particles in each.



A _____



B _____



C _____

43(a) What is dehydration?

(b) Give any **one** cause of dehydration.

(c) Name **one** important salt lost when a person has diarrhoea.

(d) How can dehydration be treated?

44 (a) State **two** ways living things depend on non-living things.

(i) _____

(ii) _____

(b) Give **two** ways animals depend on plants.

(i) _____

(ii) _____

45. (a) What is piggery?

(b) State **one** requirement for starting a piggery unit.

(c) What is farrowing in piggery?

(d) Mention **one** sign of heat in sows.

46 (a) Write PHC in full.

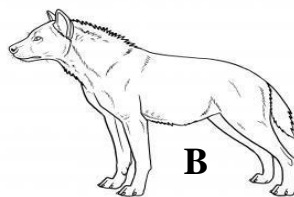
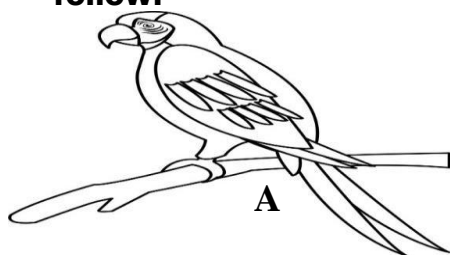
(b) Identify the element of PHC in which each of the following activities is involved:-

(i) Washing the face: _____

(ii) Sweeping the compound _____

(c) Why do we boil water for drinking?

47 Below are the diagrams of some organisms. Use them to answer the questions that follow.



a) Name the type of bird marked with the letter **A**.

b) State any **one** feeding similarity between the organisms **A** and **B** above.

c) How useful are the organisms above in promoting sanitation?

d) Apart from animal **B**, mention any **one** example of animal belonging to the same class.

48(a) State the function of the following types of teeth.

(i) canines _____

(ii) incisors _____

(b) Mention **two** ways of caring for our teeth.

(i) _____

(ii) _____

49.(a) Identify the vaccines given against the diseases below:-

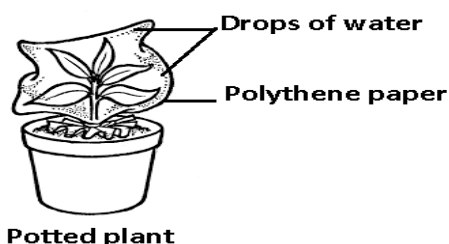
(i) Polio _____

(ii) Tuberculosis _____

(b) What is the importance of immunization?

(c) Besides the eight childhood immunisable diseases, name **one** other immunisable disease.

50 The diagram below shows a simple experiment. Use it to answer the questions that follow.



a) What is the experiment about?

b) To which group of living things do the process above happen?

c) State any **one** factor which affects the rate of the process named in (a) above.

d) How do bananas reduce the rate of process illustrated above?

51 (a) Suggest any **one** activity a farmer can do during:-

(i) dry season. _____

(ii) wet season _____

(b) How can the following be controlled on a farm:-

(i) soil erosion? _____

(ii) weeds in the garden? _____

52 (a) Give any **two** sources of sound.

(i) _____

(ii) _____

(b) Mention any **one** use of echo to:-

(i) a bat _____

(ii) a sailor _____

53 (a) Who are vulnerable groups of people?

(b) Mention **two** groups of vulnerables.

(i) _____ (ii) _____

(c) In which way can the vulnerable be cared for? _____

54 (a) What is poultry?

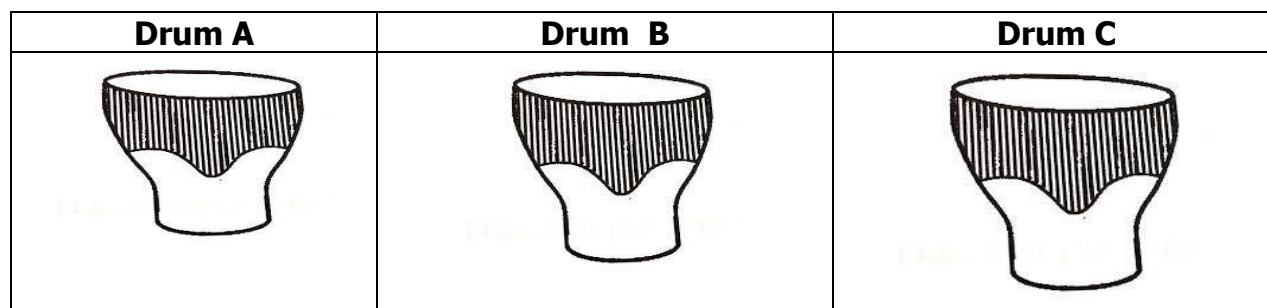
(b) Give **one** type of poultry kept for a special purpose. _____

(c) Identify any **two** causes of vices among poultry.

(i) _____

(ii) _____

55. **The diagrams below show illustration which was done by a P6 pupil. Study them and answer the questions that follow.**



a) Which drum will produce the highest pitched sound? _____

b) State the reason to support your answer in (b) above. _____

c) Which drum will produce the lowest pitched sound? _____

d) State **one** factor which affects the pitch of sound. _____

EDUCATIONAL SERVICES KAMPALA

Marking guide for P6 Science end of-term I 2024

Section A

- | | |
|--|--|
| <p>1. For feeling
2. Sunshine dries/withers/wilts the farmer's crops.
3. Solid state
4. Breathing/Transpiration
5. For walking/ running/ movement
6. For catching food
7. They all undergo external fertilization
8. Plant kingdom/Bacteria kingdom (prokaryote)/Protoctista kingdom/fungi kingdom.
9. A grasshopper undergoes incomplete metamorphosis (3 stages) while a bee undergoes complete metamorphosis (4 stages)
10. Mulching/crop rotation/application of manure/fertilizers.
11. Worker bees pollinate flowers/aid pollination.
12. Through immunization or vaccination/breast feeding/after recovery from an illness/Eating a balanced diet.
13. Grease cuts off oxygen and water supply to the hoe.
14. The semi-circular canal.
15. Trowel
16. Earthworms aerate the soil.
17. Freezing is reversible/no new substance if formed.
18. Micropyle
19. Two body division instead of three, four pairs of jointed legs, use lung books for breathing while insects use spiracles
wrong response: <i>Arachnids breathe using book lungs</i>
20. For study purpose, source of food, source of income to the school
21. By vibration of an object.
22. It is less dense than water.</p> | <p>23. Immunization/first aid/sanitation/family planning/personal hygiene/food and nutrition/food hygiene.
24. 30 days (1 month)
25. They store spores/produce spores.
26. For protection.
27. Conjunctivitis/Diarrhoea/scabies/impetigo/Trachoma
28. Air occupies space/has weight/exerts pressure/can be compressed.
29. HIV/AIDs
30. Duck bile platypus
31. It lays eggs while other mammals give birth to young ones alive
 It is oviparous mammal while others are primitive mammals
32. Ice
33. Stamen
34. Chinchilla/California/Angora/Earlop/ New Zeland white
35. Use of a trap/crop rotation/spraying using pesticides/poisoning/use of predators.
36. For farming/building/crafts/road construction.
37. Overgrazing causes soil erosion.
38. By Squeezing process
39. Due to pull of gravity/ gravitational force
40. Density = $\frac{\text{Mass}}{\text{Volume}}$
 <div style="text-align: right; margin-right: 100px;"> $= \frac{15\text{gm}}{30\text{cc}}$ </div> Density = $\frac{1}{2}$ gm/cc or 0.5 gm/cm³. </p> |
|--|--|

SECTION B

- | | |
|---|--|
| <p>41. –
a) These are birds which hunt and kill their prey.
b) Vultures/crows/marabou stones.
c) They are streamlined/have hollow bones/have wings/have flight feathers/nictating membrane.
42. –
a) Matter is anything that has mass and volume.
b) (i) solid
 (ii) Liquid
 (i) Gas
43. -
(a) Dehydration is the condition of the body when it does not have enough water.
(b)Diarrhoea (excess), Severe vomiting
(c)Sodium/potassium.
(d) give oral rehydration solution/fluids.
44. –
(a) shelter/water for drinking/air for breathing/stones for building, etc.
(b) food/shelter/shade/oxygen/medicine.
45. –
a) piggery is the act of rearing/keeping pigs.
b) Land/labour/capital/market/management.
c) Act of producing young piglets by a sow.
d) restlessness/it mounts other sows/the valve swells and turns red/white mucus discharge.
46. -
a) Primary Heath Care.
b) (i) Personal Hygiene.
 (ii) Sanitation.
c) To kill germs.
47. –a) Scavenger bird
 (b) they are all scavengers/ feed on carrions/ feed on flesh left by other animals
 (c) They eat carrions which makes environment smells
 (d) Dog, cat, foxes, wolves
48(a) (i) Canines - tearing food.
 (ii) Incisors - cutting/biting food</p> | <p>b) brushing the teeth regularly/flossing/tooth picking/regular visits to the dentist/avoid sweets.
49. – a) Transpiration .
 b) Plants.
 c) Temperature, humidity, light intensity, wind.
 d) Banana has wax on their leaves
50. - (a) soil profile.
(b)(i) X- Top soil
 (ii) Z – parent rocks.
(c) It contains oxygen and nutrients which plants need.
51. –
(a) (i) Harvesting and drying crops.
 (ii) Preparing and planting crops/weeding.
b) (i) Crop rotation/mulching/terracing/strip cropping/contour ploughing/afforestation.
 (ii) mulching/slashing/spraying with herbicides/uprooting/etc
52. –
(a) Musical instruments/birds/bell/animals/ man/vehicles.
b) (i) locate food/find their way.
 (ii) determines the depth of the sea.
53. –
(a) Groups of people who need special attention.
(b) Pregnant mothers/Breast feeding mothers/Breast fed children/weaning children/sick people/elderly people.
c) feeding them well/bathing them/ medical care/washing for them/give them fluids.
54. – (a) Poultry refers to all forms of domestic fowls or birds.
b) broilers/layers/dual purpose.
c) - poor feeding.
 - over crowding
 - boredom
55. – (a) (i) drum A
 it has the smallest surface for vibration
b) drum C
frequency, nature of material, tension of object, size of the object, surface area, length of a string</p> |
|---|--|