

KOLFRAM EDUCATIONAL SERVICES KAMPALA

MID TERM TWO EXAMINATION 2023

PRIMARY SIX INTEGRATED SCIENCE

Time allowed: **2** hours 15 minutes

Index Number:

Admission Number						Personal Number		

Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

District Name: _____

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

Read and follow these instructions carefully:

1. This paper has two sections: **A** and **B**. Section A has **40** questions and section B has **15** questions. The paper has **10** printed pages.
2. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
3. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1 -10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 53		
54- 55		
TOTAL		

SECTION A

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.

The diagram below shows a beak. Study it carefully and answer questions.



5. Identify the type of food which a bird with the above beak feeds on.

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

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

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

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

10. How are worker bees important in crop farming?

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

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

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

14. Name the garden tool used for transplanting seedlings.

15. How are earthworms useful to soil?

16. Why is freezing regarded as a physical change?

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

18. State any **one** characteristic of arachnids.

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

20. How is sound produced?

21. Why does an empty bottle float on water?

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

23. What is the gestation period of a rabbit?

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

25. Why does a millipede coil when disturbed?

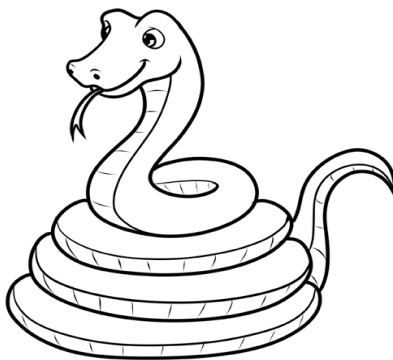
26. State any **one** example of a water cleaned disease.

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

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

29. Where does digestion of food begin?

Study the diagram below and answer questions 30 and 31.



30. To which group of vertebrate does the animal above belong?

31. How important is the forked tongue to the animal above?

32. Which term means water in solid form?

33. What is poultry?

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. What causes malaria?

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?

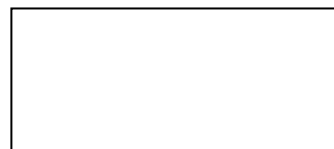
(b) Name the states of matter below according to the arrangement of particles in each.



A



B



C

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) _____

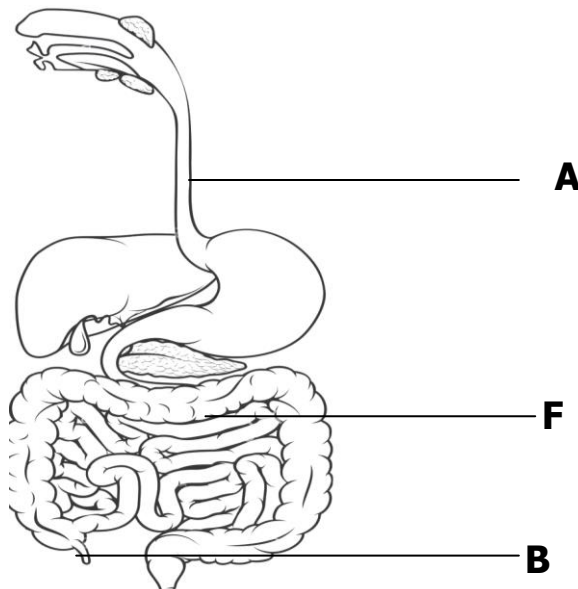
45.(a) What is piggery?

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

(c) What is farrowing in piggery?

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

46 **The diagram below is of a digestive system of man. Study it and answer the questions that follow.**



(a) Name the parts marked;

A _____ B _____

(b) What important process takes place in part marked F?

(c) Identify **one** disease which attacks the digestive system.

47(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?

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:-

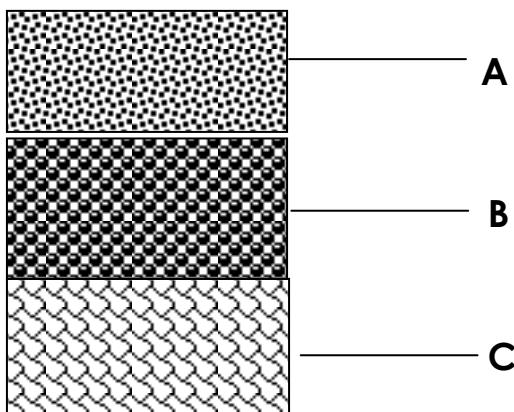
(i) Polio _____

(ii) Tuberculosis _____

(b) What is the importance of immunization?

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

50 **Below is a diagram of soil layers. Study it and answer the questions that follow.**



(a) What scientific name is given to the arrangement of soil layers shown?

(b) Name the layers marked:-

(i) A _____

(ii) C _____

(c) Why do you think that soil layer **A** is the best for plant growth?

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 vulnerable.

(i) _____

(ii) _____

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

54(a) What is poultry?

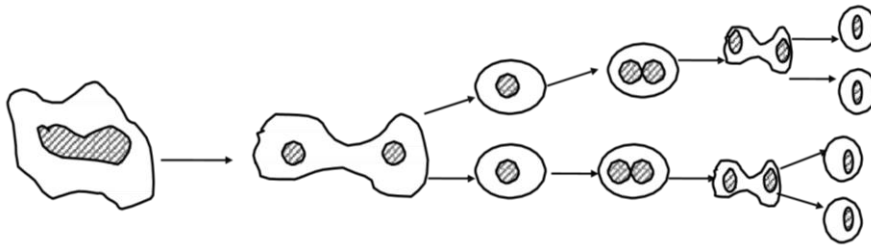
(b) Give **one** type of poultry kept for a special purpose.

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

(i)

(ii)

55. **Study the diagram of casuality below and answer the questions that follow.**



a) Name the mean of reproduction shown above.

b) Which group of living things reproduces by the mean shown above?

c) State any **two** common places where we can find the organism named in (b) above.

(i)

(ii)

Good luck

KOLFRAM EDUCATIONAL SERVICES KAMPALA
Marking guide for P6 Science MIDTERM II 2023

Section A

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Feeling 2. Sunshine dries/withers/wilts the farmer's crops. 3. Solid state 4. Breathing/Transpiration 5. Meat/ flesh 6. Both lay eggs/Both undergo external fertilization. 7. Plant kingdom/Bacteria kingdom (prokaryote)/protocista kingdom/fungi kingdom. 8. A grasshopper undergoes incomplete metamorphosis (3 stages) while a bee undergoes complete metamorphosis (4 stages) 9. Mulching/crop rotation/application of manure/fertilizers. 10. Worker bees pollinate flowers/aid pollination. 11. Through immunization or vaccination/breast feeding/after recovery from an illness/Eating a balanced diet. 12. Grease cuts off oxygen and water supply to the hoe. 13. The semi-circular canal. 14. Trowel 15. Earthworms aerate the soil. 16. Freezing is reversible/no new substance is formed. 17. Micropyle 18. They have two body parts/four pair of legs/they are wingless. 19. Source of food/study purpose/children learn how to dig/source of income. 20. By vibration. | <ol style="list-style-type: none"> 21. It is less dense than water. 22. Immunization/first aid/sanitation/family planning/personal hygiene/food and nutrition/food hygiene. 23. 30 days (1 month) 24. They store spores/produce spores. 25. For protection. 26. Conjunctivitis/Diarrhoea/scabies/impetigo/Trachoma 27. Air occupies space/has weight/exerts pressure/can be compressed. 28. HIV/Aids 29. Mouth 30. Reptiles 31. For detecting/ sensing enemies. 32. Ice 33. Poultry refers to all forms of domestic fowls (birds) 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. Protozoa/plasmodium 39. Due to pull of gravity. 40. Density = $\frac{\text{Mass}}{\text{Volume}}$

 $= \frac{15\text{gm}}{30\text{cc}}$
 $= \frac{1}{2}$
 Density = $\frac{1}{2}$ gm/cc or 0.5 gm/cm³. |
|--|--|

Section B

- | | |
|--|--|
| <ol style="list-style-type: none"> 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. – | <ol style="list-style-type: none"> a) Matter is anything that has mass and volume. b) (i) solid
(ii) Liquid
(i) Gas 43. - |
|--|--|

- (a) 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) 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) (i) A - Gullet
(ii) G - Appendix
- (b) Absorption of food/digestion of food.
- (c) Cholera/Typhoid/peptic ulcers/dysentery/Appendicitis/Diarrhoea.

47. –

- a) Primary Health Care.
- b) (i) Personal Hygiene.
(ii) Sanitation.
- c) To kill germs.

48(a)

- (i) Canines - tearing food.
- (ii) Incisors - cutting/biting food
- b) brushing the teeth regularly/flossing/tooth picking/regular visits to the dentist/avoid sweets.

49. –

- a) (i) polio vaccine/sabin.
(ii) BCG vaccine.
- b) Boosts the immunity/prevents childhood killer diseases.
- c) Cholera/meningitis/Ebola/yellow fever/Rabies/Small pox/cervical cancer.

50. –

- (a) soil profile.
- (b) (i) A- Top soil
(ii) C – 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) binary fission
(ii) Bacteria
(iii) Toilets, dead bodies, rubbish pits, air, dirty water