KOLFRAM EDUCATIONAL SERVICES KAMPALA

THE KOLFRAM EXAMINATIONS BOARD

BEGINNING OF TERM II EXAMINATION 2023

PRIMARY SEVEN

INTEGRATED SCIENCE

Time allowed: **2** hours **15** minutes

Candidate's name: _____

Candidate's Signature: _____

District ID Number

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

Read and follow these instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections: A and B. Section A has **40** questions and section B has **15** questions. The paper has **8** printed pages.
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil 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 be read easily 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: 40 MARKS

Questions 1 to 40 carry one mark each

1. State the blood component affected by the malaria parasite.

2. Name any one enzyme that acts on fats in the duodenum.

3. Name one feature formed when an opaque object obstructs light rays.

4. What causes scabies?

5. Apart from water, name one inorganic component of soil.

6. How does an amoeba reproduce?

7. What makes a seedling growing under a tree to become tall and yellowish?

8. Give the best way of controlling the spread of HIV /AIDs among adolescents.

9. Why are farmers advised to grow crops and trees on the same piece of land?

10. Why is a mushroom not a plant?

11. Apart from Calcium, which other mineral salt is responsible for strong bones and teeth?

12. Give **one** pest that affects maize in the store.

13. State **one** advantage of free range system of poultry.

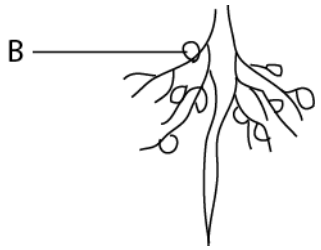
14. Give any **one** example of a wedge.

15. State the breed of goats that is reared for production of mohair.

16. In which way is the charcoal stove made of clay able to conserve fuel?

17. Give one reason why a ship is able to float on water.

18. **The diagram below shows the root of a plant. Use it to answer the questions that follow.**



(a) Name the part labelled B.

_____

_____

19. State any one danger of destroying wetlands in an area.

_____

20. How useful is a hygrometer on a weather station?

_____

_____

21. State briefly how lightning conductors work.

_____

_____

22. Name **one** natural magnet you know.

_____

_____

23. How is peristalsis important during digestion?

_____

_____

24. **In the space below draw a compound trifoliate.**

25. Why do we breathe faster when playing football than when sleeping?

_____

26. Name the gas that brings greenhouse effect on earth.

_____

_____

27. How important are fungi in the treatment of some infections?

_____

_____

28. Give any one reason for growing seedlings in a nursery bed.

_____

_____

29. Which viral crop disease makes leaves of cassava curl and yellow?

_____

_____

30. Name one example of energy resource from fossils.

_____

31. Which first aid can you give to someone who has got a scald?

_____

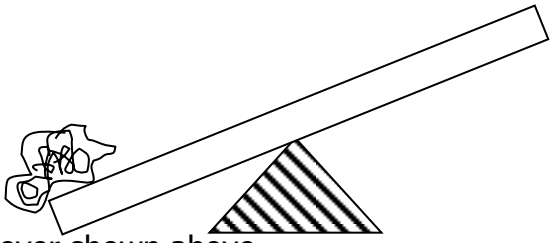
_____

32. Name any one non-flowering plant that reproduces by means of seeds.

_____

_____

Use the diagram of the lever shown below to answer questions 33 and 34.



33. Name the lever shown above.

_____

_____

34. Use letter P to show the pivot on the diagram above.
35. Give one way in which friction is useful in our daily life.

_____

_____

36. Name any one disease that affects both rabbits and poultry.

_____

_____

37. Give one part of the body where ball and socket joint is found.

_____

_____

38. How is reproduction in reptiles similar to that in fish?

_____

_____

39. Give any one reason for giving ORS to a person with diarrhea.

_____

_____

40. Apart from induction and stroke, name any other one method of making magnets.

_____

_____

SECTION B

Questions 41 to 55 carry four marks each.

41 (a) Name any two forms of energy resources got from plants.

_____

_____

(b) Give any one reason why it is difficult to use energy from plants.

_____

_____

(c) Give any one advantage of using energy resources from plants.

_____

_____

42. (a) Name any two sources of heat in our environment.

_____

_____

(b) Give any one use of heat energy to people at home.

_____

_____

(c) How is heat different from temperature?

_____

_____

43. **The table below shows a child's immunization schedule. Fill in the missing information.**

Disease	Vaccine	Age at which vaccine is given.	Method of administering the vaccine.
_____	BCG	At birth	By injecting on the right upper arm.
Polio	Polio vaccine	At birth 6 weeks 10 weeks 14 weeks	_____
Diphtheria Pertussis Tetanus Hepatitis B Haemophilus	_____	6 weeks 10 weeks 14 weeks	By injection on the left upper thigh.
Measles	Measles vaccine	_____	Injection on the left upper arm.

44a) Identify any one component of blood.

_____

_____

(b) Give any two functions of blood in our bodies.

_____

_____

(c) How can people increase the volume of blood in their bodies?

_____

_____

45. All vertebrates have endo skeleton.

a) What do you understand by this statement?

_____

_____

b) State any **two** examples of these vertebrates with endo skeleton.

_____

_____

(c) Give any **one** other type of skeleton apart from endoskeleton.

_____

_____

46.(a) Give the meaning of the word soil erosion.

_____

_____

(b) Name any two main natural agents of soil erosion.

_____

_____

(c) How does soil erosion cause infertility in the soil?

_____

_____

47a) Name the group of crops where cassava belongs?

_____

_____

(b) Name any other two crops which belong to the same group.

_____

_____

(c) State any **one** way cassava is propagated.

_____

_____

48. (a) State **two** examples of local breeds of cattle kept in Uganda.

_____

_____

(b) Give **one** advantage of cross breeding a local cow with an exotic bull.

_____

_____

(c) Name **one** endo- parasite of cattle.

_____

_____

49. Match the vectors in list **A** with the disease they spread in **B**.

A	**B**
Water snail	Malaria
Housefly	Trachoma
Anopheles mosquito	Rabies
(i) Mad dogs	Bilharzia

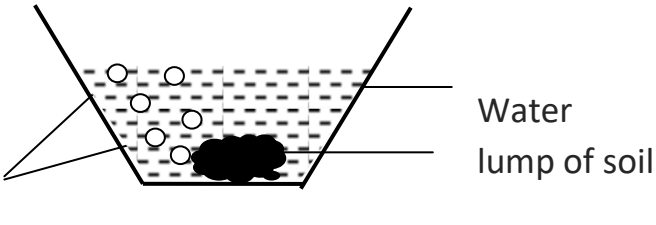
(ii) Housefly

_____

(iii) Anopheles mosquito

(iv) Mad dog

50. **Below is an experiment carried out by a P.7 class. Use it to answer questions that follow.**



a) What does the above experiment show about soil?

b) Apart from air, mention any **two** components of soil.

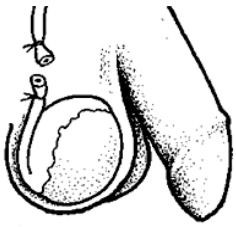
c) How is air important to the living organisms in the soil?

51a) Give any two advantages of breast milk to a newly born baby.

(b) State **one** reason why it is not advisable to use bottle feeding to newly born babies.

(c) Give any **one** condition when bottle feeding may be recommended.

52. **Below is illustration of a family planning method, use it to answer questions that follow.**

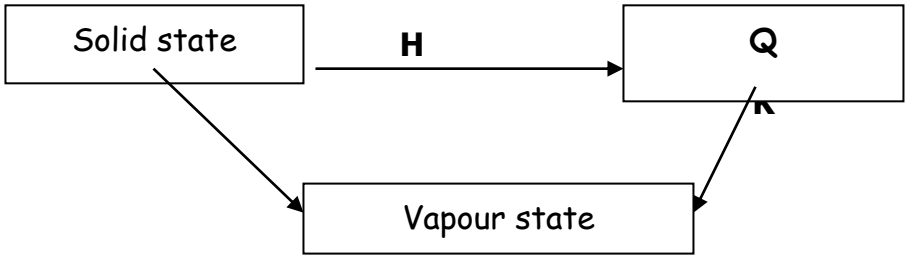


(a) Name the family planning method shown below.

(b) State any **two** reasons why men are encouraged to use the method shown above.

(c) Mention **one** reasons why men fear family planning method shown above.

53. **The diagram below represents changes of state of matter.**



(a) Name the state of matter marked **Q**.

(b) What form of energy is responsible for the change of state **H**.?

(c) How is the change of state marked **K** important in a water cycle?

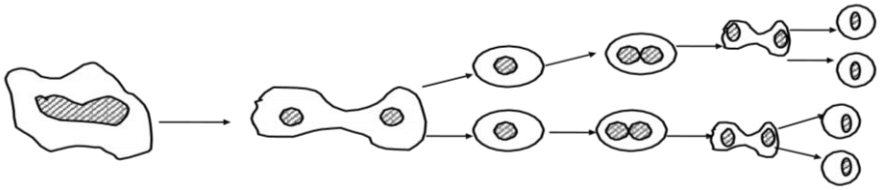
(d) What holds water molecules onto the walls of a glass from which water was poured?

54a) Why is HIV/AIDs common among sex workers?

(b) Give any **two** ways how HIV/AIDs is spread today.

(c) Give any one way married couples can avoid contracting AIDs.

55. **The diagram below shows the mean of reproduction in living things. Use it to answer questions that follow.**



a) Name the mean of reproduction shown above.

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

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