

Our children's success is our parents' pride

PEAK JUNIOR SCHOOL

NAKABUGO

P.6 INTERVIEW EXAMINATIONS

2025

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Name: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** Sub-Section I has 30 questions (30 marks)
and Sub-Section II has 20 questions (20 marks)
3. Section **B** has 5 questions (50 marks)
4. Answer **ALL** questions. All answers to both Sections **A**
and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball
point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to
loss of marks.
8. Do **not** fill anything in the boxes indicated
For Examiner's use only.

FOR EXAMINER'S USE ONLY

Qn. No	MARK	SIGN
1 – 16		
17– 26		
27 – 35		
36 – 44		
45 – 50		
51 – 52		
53		
54		
55		
TOTAL		

Turn over

SECTION A

1. State one reason why we eat food.

2. Which clouds give us rain?

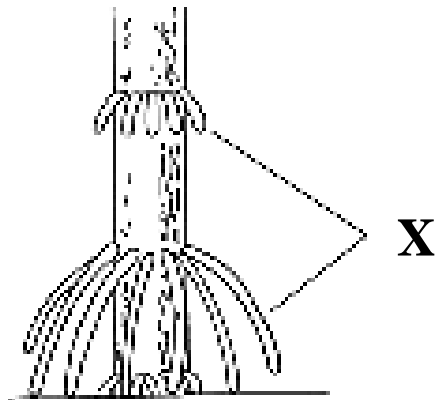
3. Name the part of a seed that grows into shoot system.

4. Why do we brush our teeth every after a meal?

5. State the duty of a queen bee in a hive.

6. How are moths able to pollinate flowers at night in darkness?

The diagram below shows roots of a plant.



7. State the function of the roots **X** shown above.

8. What is a fracture?

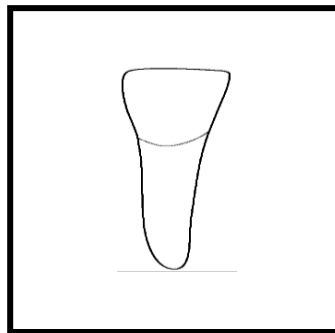
9. Mention the term used to describe the massive movement of bees from one place to another for settlement.

10. How does a snake protect itself?

11. Why does a stone sink in water?

12. What happens when salt is mixed with water?

The diagram below shows a human tooth.



13. How is the tooth shown in the diagram adapted to its function?

14. Where in man does the digestion of proteins begin?

15. What is the source of solar energy?

16. Suggest one reason why some seeds may fail to germinate when all the conditions are available.

17. How is a clinical thermometer useful to a school nurse?

18. Give one reason why a bean plant is grouped under leguminous crops.

19. Why do some poultry farmers de-beak their birds?

20. State the importance of a queen excluder in a modern hive.

21. What does a fish use for breathing?

The diagram below shows a garden tool.



22. How is the garden tool shown above useful to a crop farmer?

23. Give one way how food can get contaminated.

24. How is a Child Health Card useful to a health worker?

25. By what process does heat pass through solids?

26. How does a crop farmer benefit from a snake?

27. What condition of the body is controlled by taking ORS?

28. What are deficiency diseases?

29. How is a housefly able to carry germs from one area to another?

30. What type of change takes place when an egg hatch into a chick?

31. What gas is produced by green plants during photosynthesis?

32. Besides hearing, state another use of human ears.

33. State one way how plants depend on animals.

34. Name the gas used in the fire extinguishers.

35. Besides the gas named above, suggest another substance used in the equipment shown above.

36. Name the most sensitive part of a tooth.

37. How is a rain gauge useful to a crop farmer?

38. What are crop pests?

39. Write in full SSS.

40. What food value do we get from eating grasshoppers?

SECTION B

41.(a) What is personal hygiene?

(b) Why is it not a good practice to share tooth brushes?

(c) Mention two diseases that can result from lack of proper personal hygiene.

(i) _____

(ii) _____

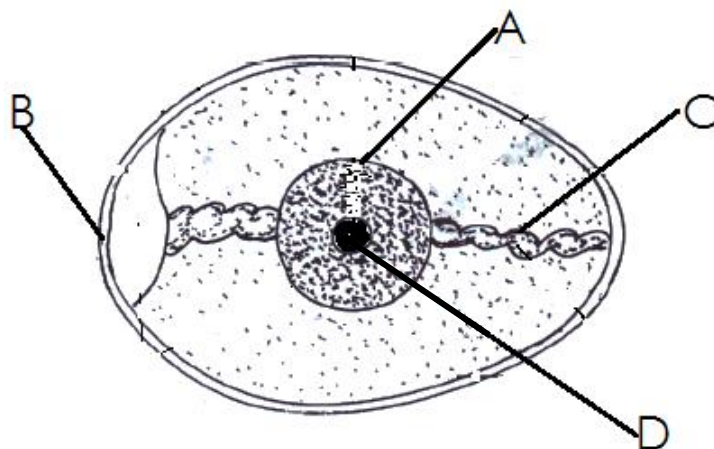
42(a) What term is used to describe the force of attraction between the molecules of the same substance?

(b) What method can be used to separate oil and water?

(c) Which state of matter has the highest rate of expansion when heated?

(d) Mention one thing in nature that is not matter.

43. **The diagram below shows an egg.**



(a) Name part D

(b) Why is part B porous?

(c) What component of air is highly needed in part A?

(d) Identify the food value that we get from eggs.

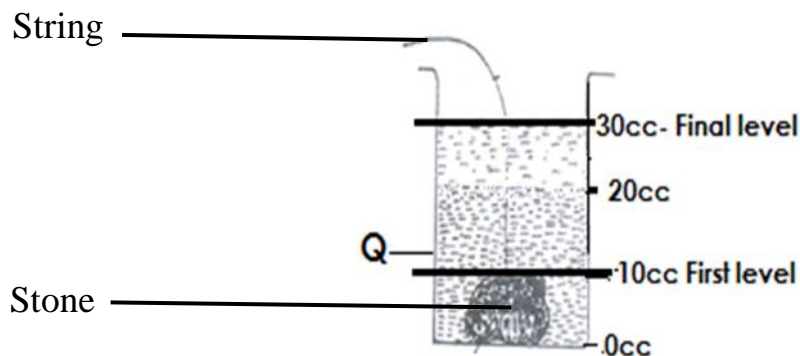
44.(a)What first aid should be given to a child who has been burnt by hot water?

(b) Why is it not good to make a victim who has drunk jik vomit?

(c) State one quality of a good first aider.

(d) What is a first aid kit?

Study the diagram below and answer the questions that follow.



45(a) What is the purpose of the experiment shown in the diagram?

(b) State the importance of the string shown in the diagram.

(c) Calculate the volume of the stone.

(d) Identify the container used in the experiment above.

46(a) What type of worm do people get through eating half –cooked meat

(b) Mention one part in the body where worms live.

(c) How is a hook worm different from a tape worm in terms of feeding?

(d) How best can we prevent tape worm infection?

47(a) **The table below shows an immunization table.**

DISEASE	VACCINE	SITE
(i) _____	BCG	Right upper arm
Tetanus	(ii) _____	Left upper thigh
Measles	Measles vaccine	(iii) _____

- (b) Mention one vaccine that is administered to a child only once.

- 48(a) Name any one function of roots to a plant.

- (b) Where in a flower does the fertilization take place?

- (c) Which part of air is necessary for seed germination?

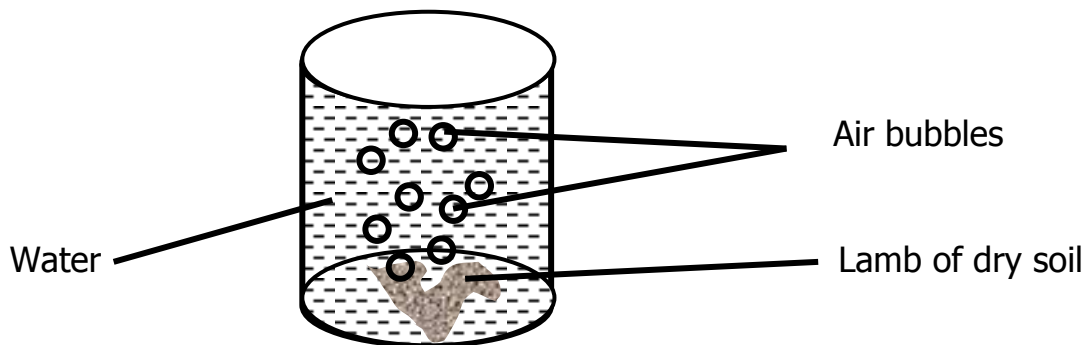
- (d) Define pollination.

49. (a) Mention one exotic breed of rabbits.

- (b) Why should a rabbit hutch be raised above the ground?

- (c) Besides meat, give another product got from rabbits.

50. **The diagram below shows an experiment about soil.**



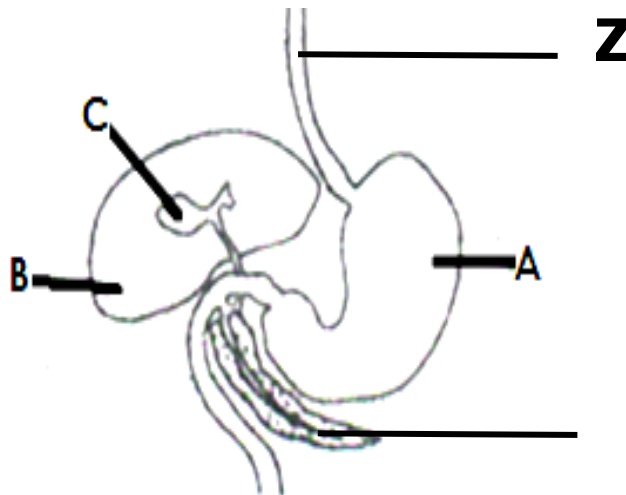
(a) What does the experiment show about soil?

(b) State one cause of soil leaching?

(c) How are bacteria important during the formation of soil?

(d) Why do farmers prefer organic manure to artificial fertilizers?

51. **The diagram below shows some parts of a digestive system.**



(a) Name part Z.

(b) State the function of part C.

(c) Identify the digestive liquid produced by organ A.

(d) Suggest one bad habit that can affect the digestive system of man.

52(a) State one effect of heat on matter.

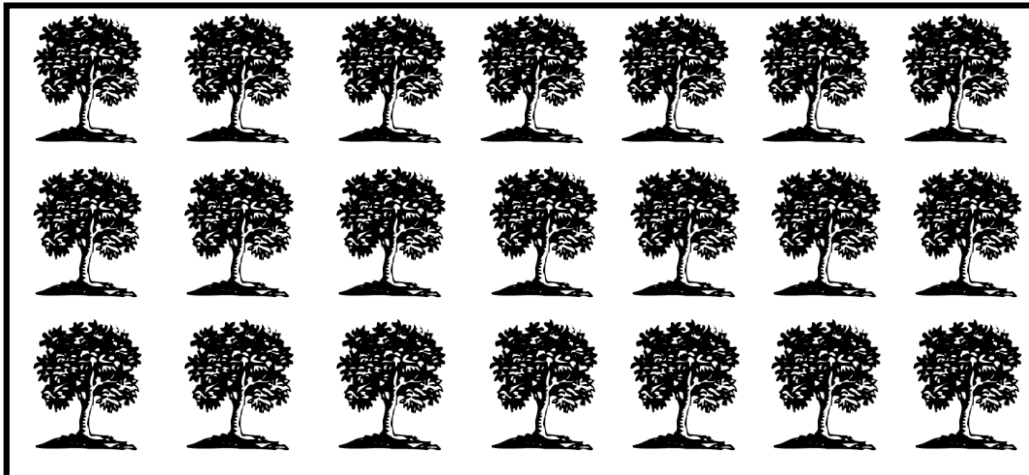
(b) Convert 20°C to °F

(c) What is the importance of a vacuum flask?

(d) What type of energy is processed by a moving ball?

53. (a) What is a nursery bed?

(b) Identify the method of planting crops that is shown in the diagram below.



.....

(c) How is each of the following crops harvested :

(i) Carrots _____

(ii) Mangoes _____

54. **Match the vectors with the diseases they carry.**

A

- Tsetse fly
- Housefly
- Water snail
- Rat fleas

B

- Polio
- Plague
- trypanosomiasis
- bilharziasis

- (a) tsetse fly _____
- (b) house fly _____
- (c) water snail _____
- (d) rat fleas _____

55.(a) What are farm records?

- (b) Suggest one reason why a good farmer should keep records.

- (c) What type of farm records deals with income and expenditure?

- (d) What do we call a farm of bees?

END

MARKING GUIDE FOR P.6 Science Interview Exams

1. To get energy / To satisfy hunger / It's a habit / To be happy / For hospitality / to grow.
2. Nimbus
3. Plumule
4. To remove food remains on and in between the teeth
 - To promote personal hygiene
 - To promote oral health or Oral hygiene
 - To have a fresh breath
 - To prevent tooth decay
5. To lay eggs
6. By use of its strong smelling body structures
7. To provide extra support to the plant at a fruiting stage
8. Is a broken or cracked bone in the body.
9. Swarming
10. By use of its fangs / slithering away from its enemies.
 - It bites its enemies with its poisonous teeth / some snakes camouflage.
11. It is more dense than water.
 - It is more than the upthrust force in force.
12. Salt dissolves in water.
13. It has a sharp edge to cut or bite food.
14. In the duodenum
15. The sun
16. Rotten seeds
 - If the seeds have holes on them / damaged seeds / pre-mature seeds
17. To measure body temperature of pupils
18. It has root nodules on its roots
19. To prevent (control) poultry vices / To control egg eating, Cannibalism, feather, toe and skin pecking.
20. It prevents the queen bee from laying eggs in the honey combs. / It prevents the queen bee from crossing to the honey chamber to feed on the honey.
21. Gills
22. For watering crops
23. Handling food using dirty hands / handling food using dirty containers./ handling food in a dirty place / leaving food un-covered for long time.
24. It enables the health worker to tell the vaccines the child has received and those one remaining.
 - The health worker is able to tell the health progress of the child.
 - To tell health records, background of the child e.g names of the child, parents' name and place of residence.
25. Conduction
26. Snakes feed on rats which destroy crops
27. Dehydration
28. Diseases got due to lack of some food nutrients (values) in one's body.
 - Diseases got due to lack of some food nutrients in one's diet.
29. By use of its hairy
30. Biological change
31. Oxygen
32. For body balance
33. Plants receive carbon dioxide from animals.
 - Plants get manure from animals
 - Animals care for plants through pruning, thinning etc
34. Carbon dioxide
35. Foam / Carbon dioxide powder
36. Pulp cavity
37. To measure the amount of rainfall received in an area at a given temperature.
38. Living organisms that destroy crops / living organisms that destroys farmer's crops
39. Sugar / salt solution
40. Proteins
41. (a) The general cleanliness of one's body.
(b) It encourages easy spread of dental diseases
(c) Ring worms / Scabies
42. (a) Cohesion
(b) Using a separating funnel
(c) Gases
(d) Light energy / sound energy/ Heat energy
43. (a) Germinal disc
(b) To enable gaseous exchange
(c) Oxygen
(d) Proteins
44. (a) Dip the burnt part in clean cold water for some time.
(b) Jik is corrosive and will damage the throat.
(c) It should be quick at decision making
 - Should be knowledgeable / should be skilled / kind / sympathetic
(d) Refers to different instruments used in attending different first aid cases.
45. (a) To find the volume of the stone.
(b) To hold and lower the stone gently (slowly) into the measuring cylinder.
(c) Volume of stone = Level 2 – level 1
Level 2 = 30cc
Level 1 = 10cc
 $V = 30\text{cc} - 10\text{cc}$
 $= 20\text{cc}$
(d) Measuring cylinder

46. (a) Tape worm
(b) Intestines (small intestines)
(c) Hook worms feed on blood while tape worms feed on digested food
(d) Eating properly cooked meat.
47. (a) (i) Tuberculosis
(ii) DPT vaccine
(iii) Left upper arm
(b) BCG vaccine / measles vaccine
48. (a) Holding the plant firmly in the soil.
• They absorb water and mineral salts from the soil.
• Some roots store food for the plant.
(b) Ovary
(c) Oxygen
49. (a) Chinchilla rabbit / Angora rabbit / New Zealand white / Californian rabbit.
(b) To protect rabbits from predators
- To protect them from flowing rain water / underground moisture.
(c) Fur
(d) Doe is a mature female rabbit.
50. (a) It shows that soil contains air.
(b) Soil erosion / over cultivation / Floods / Heavy mulching.
(c) Bacteria decomposes dead organic materials to form soil.
(d) Organic manure lasts longer in the soil than artificial fertilizers.
- It does not require skill to use compared to artificial fertilizers.
- It is cheap compared to artificial fertilizers.
51. (a) Z – Gullet (Oesophagus)
(b) X – To store bile juice
(c) Pancreatic juice
(d) Eating oily or fatty foods
- Eating and swallowing food which is not properly chewed.
- Failing to drink enough water etc.
52. (a) Heat causes matter to become warm or hot.
- Heat causes expansion in some matter.
- Heat causes some matter to melt
(b)

$$\begin{aligned}
 20^{\circ}\text{C} & \text{ to } ^{\circ}\text{F} \\
 ^{\circ}\text{F} &= 20^{\circ}\text{C} \times \frac{9}{5} + 32^{\circ} \\
 &= \frac{4}{20^{\circ}} \times \frac{9}{5} + 32^{\circ} \\
 &= 36^{\circ} + 32^{\circ} \\
 &= 68^{\circ}
 \end{aligned}$$

- (c) To keep it from getting too cold.
(d) Kine . . . 20°C = 68°C