

THE PEARL EXAMINATIONS 2024

KAMPALA SCHOOLS

CLASS : PRIMARY SEVEN

SUBJECT : INTEGRATED SCIENCE

DURATION: 2 HOURS 15 MINUTES

Index No.

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Final Mark

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Candidates Name

Candidates' Signature

District Name

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

Read the following instructions carefully.

1. This paper is made up of two Sections: A and B.
2. Answers to both sections must be written in the spaces provided in full sentences.
3. Section A has 40 questions (40 marks)
4. Section B has 15 questions (60 marks)
5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **NOT** be marked.
7. Crossing out of answers will lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINERS USE ONLY

QN. NO.	MARK	SIGN
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		

SECTION A. (40 marks)

(Questions 1 to 40 carry one mark each)

1. Name any **one** animal that can be kept in an aquarium.

2. Identify the digestive disorder which one gets due to lack of roughages in the body.

3. How is a wasp similar to a scorpion in their defence mechanism?

4. **Filtration makes water clean, but not necessarily make it safe for drinking.** How can filtered water be made safe for drinking?

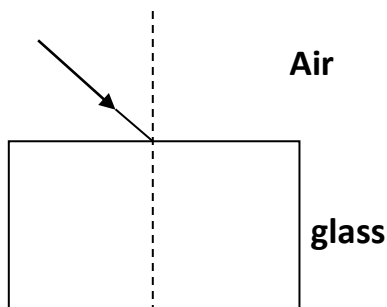
5. **The diagram below shows a tool commonly used by crop farmers.** Give the main use of this tool to a farmer.



6. Why are people suffering from severe diarrhoea given plenty of fluids to drink?
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7. Give any **one** similarity among the following animals: **rat, bat** and **dove**.
-
-
8. In which way is the spread of cholera similar to that of trachoma?
-
-
9. **Both ferns and conifers are non-flowering plants.** In which **one** way are they different from each other?
-
-
10. Identify any **one** way of controlling internal parasites in farm animals.
-
11. **Propagation refers to a way of obtaining new plants from the parent plant.** How is millet propagated?
-
12. Which eye disease is commonly spread by black fly to people?
-
13. Give any **one** negative effect of water pollution to our health.
-

14. **Earth worms are some of the important components of soil.** How are they important in the soil?

15. **The diagram below shows refraction. Complete correctly.**



16. In which way is pitch different from volume of sound?

17. Suggest any **one** danger of drought to people?

18. **Wind is air in motion.** How is wind important to people in our daily lives?

19. Identify any **one** natural source of light in our environment.

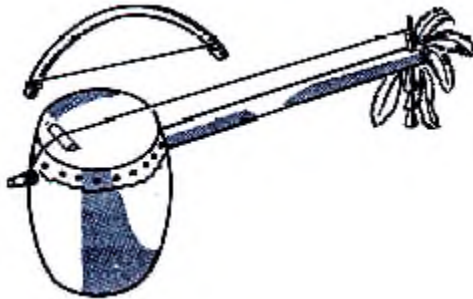
20. Give any **one** example of arachnid.

21. **One of the components of a first aid box is a plaster.** Write the use of a plaster during first aid.

22. **Mulching is the covering of top soil with dry plant materials.** Why is this practice important in crop farming?

23. How does the sun contribute to the formation of rainfall?

24. **To which class of sound instruments does the one drawn belong?**



25. Identify any **one** STD in human beings.

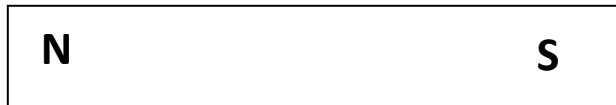
26. Name **one** form of energy released by a functioning electric bulb.

27. How is a fish different from a mango plant in the way they breathe?

28. Identify any **one** common ecto parasite in cattle.

29. Write **one** functional difference between arteries and veins.

30. **The diagram below shows a bar magnet.** Draw lines showing the movement of magnetic lines of force.



31. Why do you think plants are not able to make starch at night?

32. What is the use of proper ventilation in a living house?

33. Give any **one** danger of smoking to an individual.

34. How does afforestation control soil erosion in an area?

35. Mention any **one** disease which attacks both sheep and rabbits.

36. What is a nuclear family?

37. Suggest any **one** importance of using mineral resources in a sustainable way.

38. In which way is the urethra different from the ureter?

39. In which part of a flower is a zygote formed?

40. Give the surest way of knowing your HIV status.

SECTION B

41. (a) Give any **two** benefits of feeding a baby on breast milk.

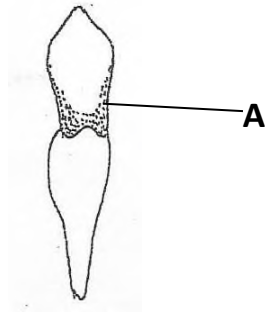
(i) _____

(ii) _____

b). Suggest **one** situations that may cause a mother NOT to breast feed her baby.

c). Why is bottle feeding discouraged by medical officers?

42.The diagram below shows a human tooth study it and answer question



a)Identify the type of tooth illustrated above.

b)Mention the mineral salt which strengthens part labelled **A** .

c)How is the above tooth useful during digestion of food?

d)In which way is it adapted to its function?

43. Re-arrange the following stages in the right order of occurrence.

- i) The radicle appears.
- ii) The seed swells.
- iii) The plumule grows.
- iv) The seed takes in moisture and air.

i)_____

ii)_____

iii)_____

iv)_____

44. (a) In which **one** way can a crop farmer benefit from farming near an apiary?

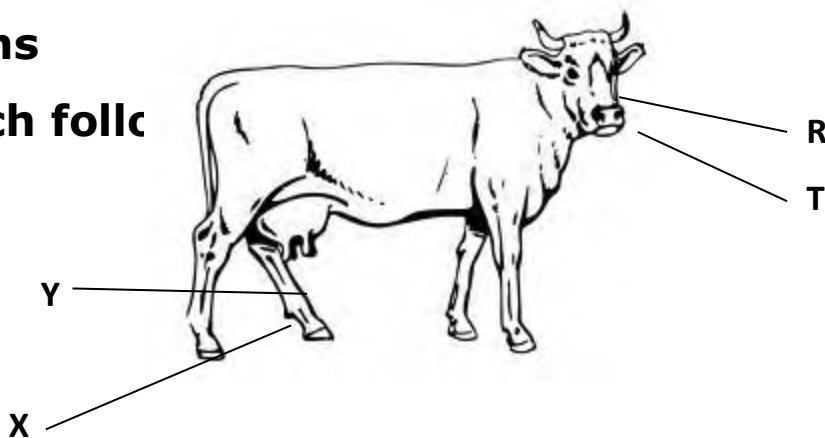
(b) Identify any **two** materials bees use to make honey.

i) _____ ii) _____

c) What major food value is provided by honey to our bodies?

45. **The diagram below shows a cow. Study it and answer the questions**

which follow



a) Name the parts labelled **X** and **Y**.

(i) **X** _____

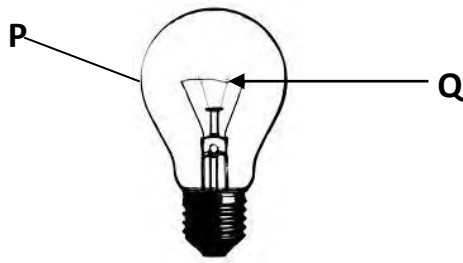
(ii) **Y** _____

b) What is the use of parts mark **R** and **T** to the cow?

(i) **R** _____

(ii) **T** _____

46. **The diagram below shows an electric bulb. Use it to answer the questions about it.**



a) Why is part **Q** coiled?

b) Name any **one** gas contained in the above bulb.

c) Why is part labeled **P** made of a transparent material?

d) State any **one** energy change that occurs in a bulb when in use.

47. (a) Name any **one** type of latrine.

(b) How far should a pit latrine be away from a water source?

(c) Give **one** advantage of a VIP latrine over an ordinary pit latrine.

(d). How do we care for our toilets at school?

48. Write any **two** components of soil.

(i) _____

(ii) _____

(b) Identify the process through which soil is formed.

(c) How do farmers conserve soil as a resource?

49. Give any **two** types of poultry kept in a home.

(i) _____ - _____ (ii) _____

(b) How do farmers take care of their poultry kept at home?

(c) What type of chicken is regarded as table birds?

50. **Match the following types of changes in A to examples in B correctly.**

A

Biological change

Atmospheric change

Chemical change

Physical change

a. biological change

b. atmospheric change

c. chemical change

d. physical change

B

digestion

formation of clouds

ecdysis

sublimation

51. **Fainting refers to the temporary loss of consciousness.**

a) Give the major cause of fainting in people.

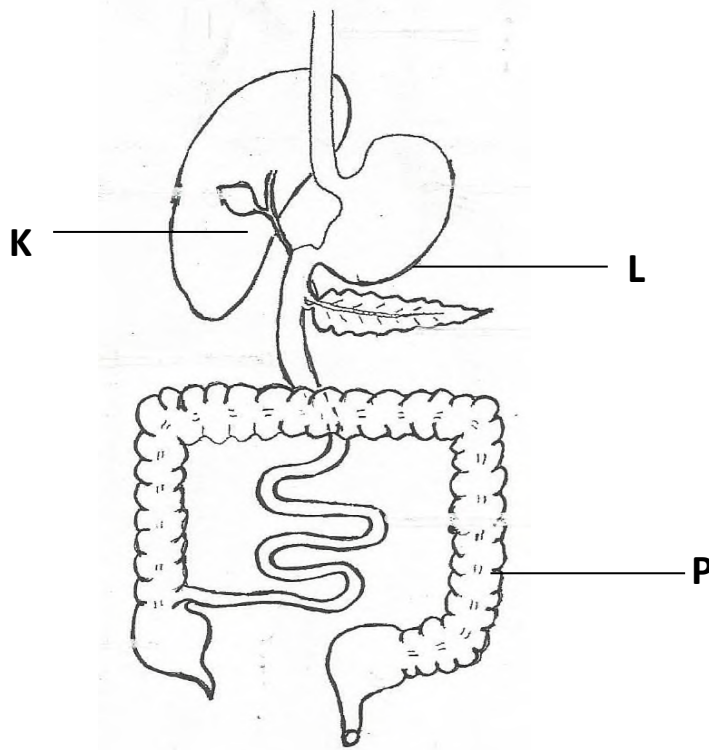
b) Why is it important to carry out the following steps when giving first aid to a person who has fainted?

(i). Fanning

(ii).Raising the lower body part

(c) Write any **one** quality of a first aider.

52. **The diagram below shows part of the digestive system of a man.**



a) Name the parts marked **L** and **K**.

(i).**L**_____ (ii) .**K**_____

b) Give any **one** function of part **P** during digestion.

c) By using an arrow directed to letter **W**, indicate the part that stores bile.

53. (a) Write one sentence explaining the meaning of each term below.

(i) Mass _____

(ii) Density _____

(b). **A cork occupies space equivalent to 24c.c** .It has a density of 12gm/cc.

Calculate the mass of the cork.

54. **Bacteria are grouped in two main groups.** Name these groups.

(i) _____ (ii) _____

b) In which **one** way are bacteria useful to people?

c).How is the reproduction of bacteria different from that in yeast?

55. (a) Why is a wheel barrow regarded as a simple machine?

b).In the space below, draw an example of a 2nd class lever.

c). Which type of pulley has a mechanical advantage of one?

d).How can you reduce friction in moving parts of a bicycle?

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GOOD LUCK.