

THE PEARL EXAMINATIONS LINK 2024

KAMPALA SCHOOLS

P.7 PRE – MOCK SET I QUALITY ASSURANCE

Integrated Science

Time allowed: 2 hours 15 minutes

Name: _____

School: _____

District: _____ Stream _____

Read the following instructions carefully:

FOR EXAMINER'S USE ONLY

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 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;

Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

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Turn Over

THE PEARL EDUCATIONAL CONSULT KAMPALA SCHOOLS

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SECTION A

1.Name the largest group of mammals in Uganda.

2.Name one cold blooded vertebrate that has a body shell.

3.Suggest one way in which water is important in our bodies.

4.Which substance can exist in the three states of matter?

5.Which stage in the life cycle of a housefly is important to man?

6.Which part of the seed develops into a new plant?

7.Identify the part of a skeleton that protects the brain.

8.How does a gecko (lizard) help man in daily life?

9.Identify any one method of making magnets.

10.Where does fertilization take place in mammals?

11.Give one example of a bird with a chisel-shaped beak.

12.Why is a mushroom unable to make its own food?

13.Name the natural habitat of a rabbit.

14.Why do insects visit flowers?

15.Why are cockroaches considered to be vectors?

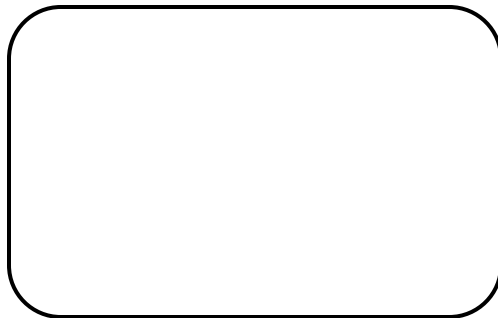
16. Why is distilled water not good for drinking?

17. Name the mineral salt found in iodised salt.

18. Of what importance is a blubber to a whale.

19. Why should living rooms be painted with light colours?

20. In the space below, draw and label the parts of a stamen.



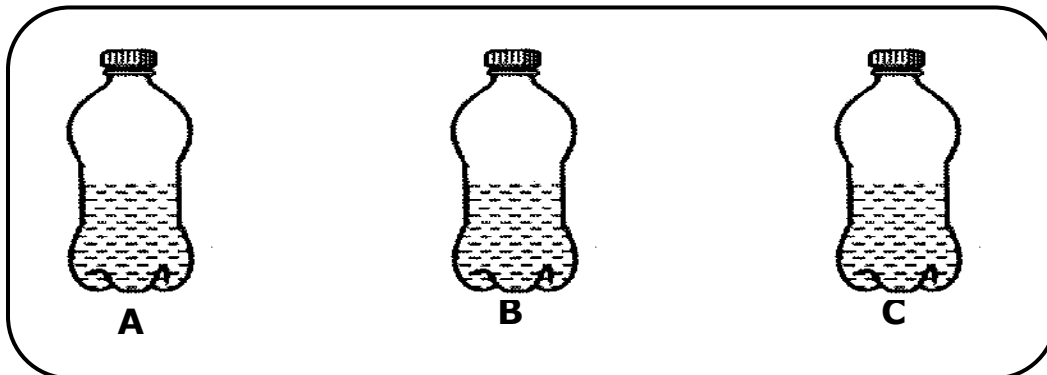
21. How can one control echoes in cinema halls?

22. Paul uses a wheelbarrow to carry potatoes from his garden to the market. What is the advantage of using such a machine?

23. Name one product of petroleum.

24. How does the use of electricity to cook conserve the environment?

Use the diagrams below to answer question 25.



25. Which bottle will produce the highest pitch of sound?

26. What type of reproduction does a frog undergo?

27. Convert **30°C** to **F**.

28. Define a nursery bed.

29. What process will you use to recover salt which has dissolved in water?

30. Why has the government of Uganda banned smoking in public places?

31. Fish and birds have streamlined body shapes. Of what importance is this to the animals?

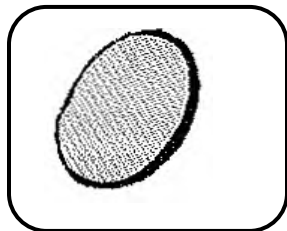
32. Name the form of energy stored in a dry cell.

33. In what way can a child get natural immunity?

34. How useful are the ligaments in the human body?

35. Mention the importance of a micropyle to a bean seed.

Below is a blood cell. Use it to answer questions 36 and 37.



36. Name the blood cell shown.

37. What is the function of the blood cell you have named in No. 36 above?

38. Mention one characteristic of arachnids.

39. Give one example of a drupe.

40. When do we use the displacement method?

SECTION B

41. Name the parts of the body where we find these joints;

- (a) Ball and socket joint _____
- (b) Hinge joint _____
- (c) Plane (Gliding) joint _____
- (d) Pivot joint _____

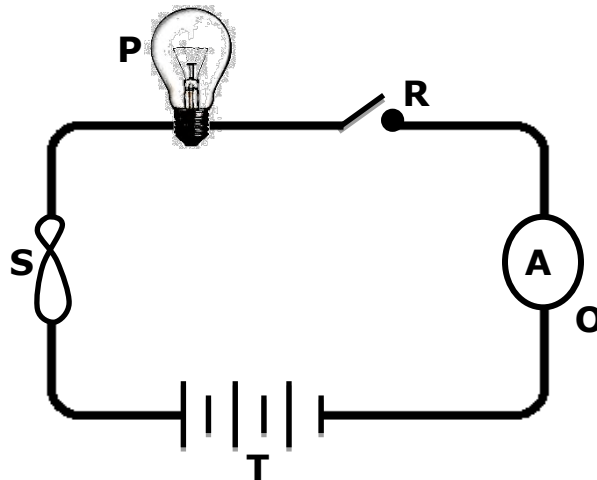
42. a) Define the term "Frequency" in relation to sound energy.

b) Mention two factors that determine the pitch of sound of a guitar.

- i) _____
- ii) _____

c) Write down one way of storing sound.

43. Below is a diagram of an electric circuit. Use it to answer questions that follow.



(a) Identify the parts labeled:

- i) **P** _____
- ii) **T** _____

(b) State the function of the part labeled O.

(c) How does part labeled S protect the circuit?

44. a) Which type of soil is suitable for agriculture?

b) Give a reason to support your answer in (a) above.

c) Mention one way how soil is formed.

d) Which component of soil helps in improving soil aeration?

45. Match the following terms in A with their correct definitions in B

A	B
Incubation	- A type of chicken kept for egg production.
Brooding	- Shortening of the upper part of the birds' beak
Layers	- Provision of favourable conditions to eggs to hatch.
Debeaking	- Care given to chicks from 1 day to 8 weeks.

a) Incubation _____

b) Brooding _____

c) Layers _____

d) Debeaking _____

46. a) Explain the term "Family Planning".

b) Give one artificial permanent method of family planning.

c) Suggest one reason why some parents have many children.

d) Write one advantage of practicing family planning.

47. a) By what process does a fish get oxygen from water?

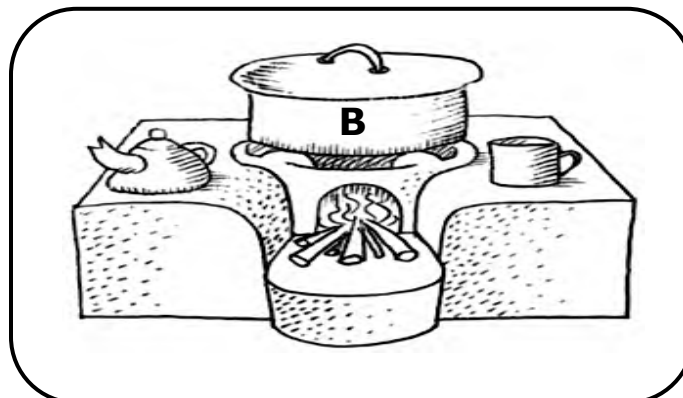
b) State the function of the parts of a fish below on its body.

i) Lateral line _____

ii) Nostril _____

c) How are the eggs of a fish fertilized?

48. The diagram below shows a saucepan with some water on fire. Use it to answer the questions that follow.



a) Identify the type of change taking place at **B**.

b) Give a reason to support your answer in (a) above.

c) How will heat from the fire move to reach the water at the bottom of the saucepan.

d) Use arrows to show the movement of water in the saucepan after it has been heated for some time.

49. a) In which way is the sun useful to plant life?

b) List down any two raw materials needed for photosynthesis to take place.

i) _____

ii) _____

c) Name the food manufactured by green plants during photosynthesis.

50. a) What are poultry vices.

b) How is litter from a deep litter system useful to a crop farmer?

(c) State any two disadvantages of free range system of poultry keeping.

i) _____

ii) _____

51. a) What is a balanced diet?

b) State the general word used to mean diseases caused by lack of a balanced diet.

c) Give two reasons why people fail to have a balanced diet.

i) _____

ii) _____

52. a) Suggest the blood component affected by;

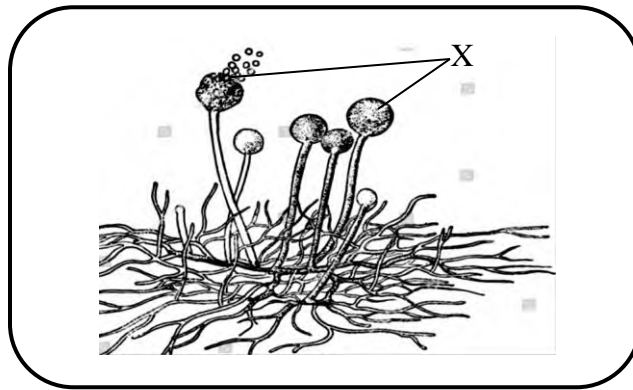
i) HIV _____

ii) Plasmodium _____

b) How are bones related to blood?

c) What advice would you give to someone whose baby has anaemia?

53. The diagram below shows bread mould.



- (a) What is found in part **X**?

- (b) How do bread moulds reproduce?

- (c) To which group of living things do they belong?

- (d) Give one use of such living organisms.

54. a) What is pollination?

- b) Name the gametes in plants which are similar to sperms in animals.

- c) Which part of a flower develops into a fruit?

- d) Give one example of a berry.

55. a) **Give an example of each of the following groups of birds.**

- i) Birds of prey: _____
- ii) Wading birds: _____
- b) Mention one advantage and one danger of birds to man.
- i) Advantage: _____
- ii) Danger: _____

Good luck