

# THE PEARL EXAMINATIONS 2024

## KAMPALA SCHOOLS

### P.7 PRE MOCK SET II REAL BLUE PRINT

#### Integrated Science

*Time allowed: 2 hours 15 minutes*

Random Number						PERSONAL No.		

Candidate's Name:.....

Candidate's Signature: .....

District ID No.

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### 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.;

For Examiner's use only.

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

THE PEARL KAMPALA SCHOOLS #PLE# 2024

Turn Over

#### THE PEARL EDUCATIONAL CONSULT KAMPALA SCHOOLS

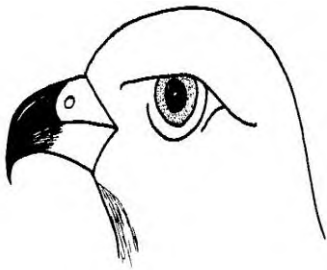
ALWAYS USE THE PEARL: STANDARD WORK BOOKS, COMPANION BOOKS, HOME WORK , HOLIDAY PACKAGES, LUNCH HOUR, MORNING WORK, SCHEMES OF WORK @ YOUR SUCCESS IS OUR PRIDE @ Tel: 0757999162 / 0782171915 / 0760750983

## SECTION A

Questions 1 to 40 carry one mark each

1. Why is carbon dioxide gas sealed in soda bottles?  
\_\_\_\_\_
2. Name the enzyme that breaks down proteins into amino acid.  
\_\_\_\_\_
3. A winding road is an inclined plane, how does it simplify work?  
\_\_\_\_\_
4. State the function of a vacuum seal on a thermos flask.  
\_\_\_\_\_
5. State the advantage of using a thermo gun over a clinical thermometer in measuring the body temperature of a COVID 19 suspected patient.  
\_\_\_\_\_
6. How are earthworms useful to crop farmers?  
\_\_\_\_\_
7. What collective name is given to the plumule and radicle of a germinating seed?  
\_\_\_\_\_

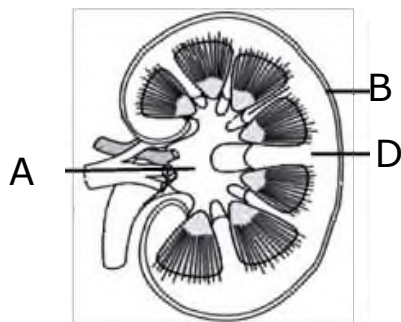
**The diagram below is of a beak of a certain group of birds. Study and use it to answer question 6 and 7.**



8. Which group of birds have the above beak?  
\_\_\_\_\_
9. How are birds with such a beak dangerous to a poultry farmer?  
\_\_\_\_\_  
\_\_\_\_\_
10. Which type of manure is got from animal droppings?  
\_\_\_\_\_
11. Give any one role played by school children in promoting PIASCY Messages.  
\_\_\_\_\_
12. Mention any one fungal disease that affects the human skin.  
\_\_\_\_\_
13. Name the class of levers to which the fishing rod belongs.  
\_\_\_\_\_
14. How is the function of the cotyledon in the maize grain different from that in a bean seed?  
\_\_\_\_\_
15. What is the importance of giving a person who has drunk paraffin fluids like milk to drink?  
\_\_\_\_\_

16. State the best way of preventing childhood immunisable diseases.  
\_\_\_\_\_
17. Which disease vector spreads river blindness to people?  
\_\_\_\_\_
18. How does painting help to prevent a metallic object from rusting?  
\_\_\_\_\_
19. State any one way of increasing the volume of blood in the human body.  
\_\_\_\_\_
20. In which one way are air sacs (alveoli) able to carry out gaseous exchange?  
\_\_\_\_\_
21. Name the non diarrhoeal disease spread by the house fly to people's eyes.  
\_\_\_\_\_
22. To which group musical instruments do shakers belong?  
\_\_\_\_\_
23. State any one activity carried out to promote maternal and child health care in the community.  
\_\_\_\_\_
24. Give a reason why the surface of a solar panel is painted black.  
\_\_\_\_\_
25. Apart from ringworm, name any one other disease caused by fungus to human being.  
\_\_\_\_\_
26. State the energy change that takes place in the dry cells when the circuit is complete.  
\_\_\_\_\_
27. Which body system is affected by HIV/AIDS?  
\_\_\_\_\_
28. Write down any one vertebrate that helps to control malaria at home.  
\_\_\_\_\_

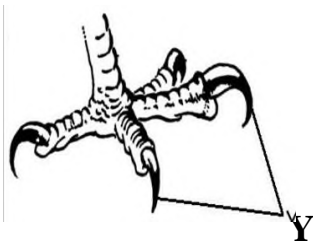
**The diagram below shows a human kidney. Use it to answer questions 29 and 30.**



29. Name part marked A.  
\_\_\_\_\_
30. In which way is the function of part marked B different from that of part D?  
\_\_\_\_\_  
\_\_\_\_\_
31. Which agent of soil erosion is controlled by terracing?  
\_\_\_\_\_

32. State any one advantage of using cage system in poultry keeping.  
\_\_\_\_\_
33. State the method used to separate millet seeds from chaff.  
\_\_\_\_\_
34. Give any one reason why the house of goats is made with a slanting surface.  
\_\_\_\_\_
35. How is salivary amylase useful during digestion of food in the body?  
\_\_\_\_\_
36. A torch uses two dry cells. Calculate the voltage of the torch.  
\_\_\_\_\_
37. How does gonorrhoea increase the chances of a person getting HIV/AIDS?  
\_\_\_\_\_
38. State any one way in which the spread of round worms can be prevented.  
\_\_\_\_\_

**The diagram below shows a foot of an eagle. Use it to answer questions 39 and 40.**



39. Name the structure marked Y.  
\_\_\_\_\_
40. How are the structures marked Y useful to an eagle?  
\_\_\_\_\_  
\_\_\_\_\_

### **SECTION B: 60 MARKS**

**Questions 41 to 55 carry four marks each.**

41. (a) Write down any two machines used in measuring the weight and mass of different objects.  
i) \_\_\_\_\_ ii) \_\_\_\_\_
- (b) Give two ways in which weight and mass differ.  
i) \_\_\_\_\_  
\_\_\_\_\_
- ii) \_\_\_\_\_  
\_\_\_\_\_

42. Victoria stepped on a burning charcoal by accident and immediately removed her foot.
- a) What name is given to the injury Victoria got?  
\_\_\_\_\_
  - b) Which part of the body sensed this type of injury?  
\_\_\_\_\_
  - c) Name the degree of the above injury where Victoria can get blisters.  
\_\_\_\_\_
  - d) What first Aid would you give to Victoria?  
\_\_\_\_\_

**43. Write the functions of the parts of a flush toilet below.**

- a) Toilet seat \_\_\_\_\_
- b) Bowl \_\_\_\_\_
- c) Cistern tank \_\_\_\_\_
- d) Septic tank \_\_\_\_\_

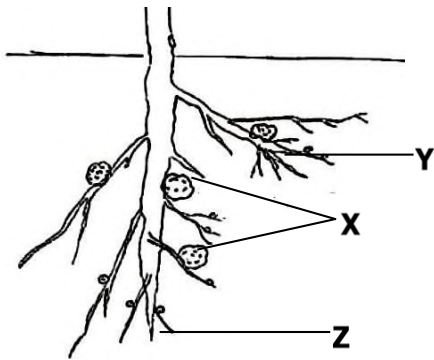
**44. a) Name the fungus used in the following,**

- i) brewing of alcohol \_\_\_\_\_
- ii) making of antibiotics \_\_\_\_\_

b) State any two ways in which fungi are harmful to people.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

**45. The diagram below is of the root system. Study and use it to answer the questions that follow.**



a) Name the part marked **Z**.

b) Give the function of part marked **Y** to a plant.

c) Write down any **one** plant that has pat marked **X** on its roots.

d) What type of root system is shown above?

**46. a) Apart from salting, mention any two other methods used to prevent meat from going bad.**

- i) \_\_\_\_\_ ii) \_\_\_\_\_
- b) In which way does salting prevent meat from going bad?  
\_\_\_\_\_

c) Name any one element of a balanced diet.

47. a) State the main cause of fainting.

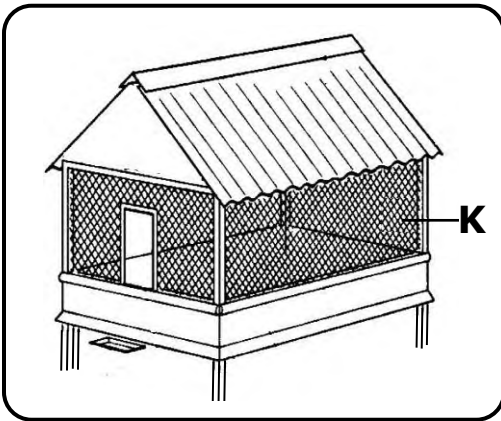
b) Give any two conditions that can lead to fainting.

i) \_\_\_\_\_

ii) \_\_\_\_\_

c) Why should the legs of a person who has fainted be raised slightly higher than the head?

48. The diagram below shows a system of keeping poultry. Study and use it to answer the questions that follow.



a) State any one reason why part marked K is used when constructing the above shown poultry house.

\_\_\_\_\_

b) Give any two advantages of using the above system of keeping poultry.

i) \_\_\_\_\_

ii) \_\_\_\_\_

49. a) Which stage of a housefly do maggots develop into during metamorphosis

b) How are maggots useful in pit latrines?

c) Apart from maggots, name one other organism that is useful in pit latrines.

d) Why is it not advisable to pour chemicals like acids in pit latrines?

50. a) **Name the part of a fish that enables it to;**

i) Smell food from water \_\_\_\_\_

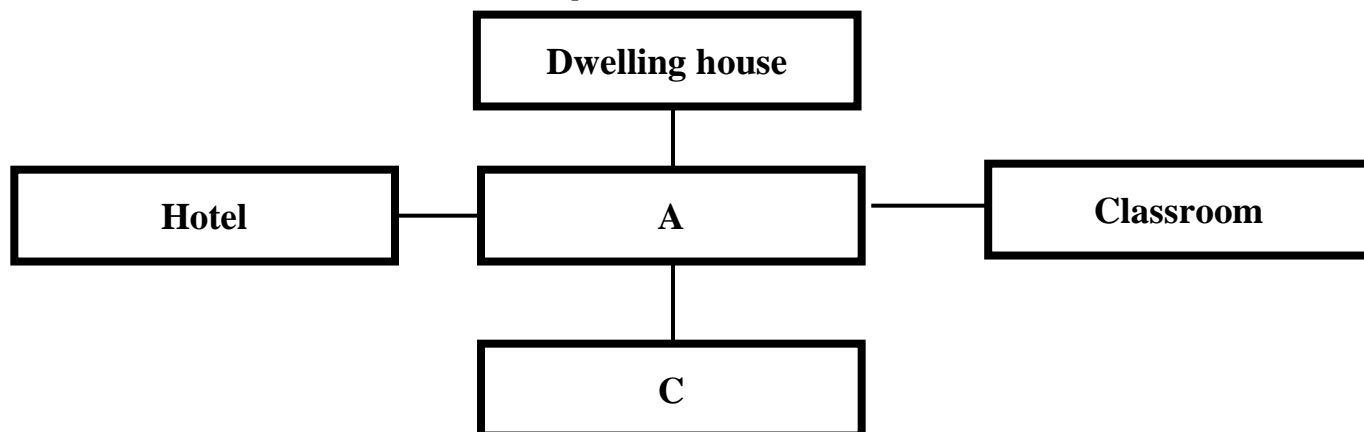
ii) Sense danger in water \_\_\_\_\_

b) State any two ways in which a fish is able to live in water.

i) \_\_\_\_\_

ii) \_\_\_\_\_

**51. The diagram below shows a good site for a pit latrine. Study and use it to answer the questions that follow.**



a) Name the building found at point marked

b) Identify the distance marked F.

c) Why is the building marked A put at a distance of 30 metres from item marked C?

d) Mention any one other building that can be built 10 metres away from building marked A.

52. a) Mention any two physical processes in matter that help in rain formation.

i) \_\_\_\_\_ ii) \_\_\_\_\_

(b) State any two properties of solid state of matter.

i) \_\_\_\_\_

ii) \_\_\_\_\_

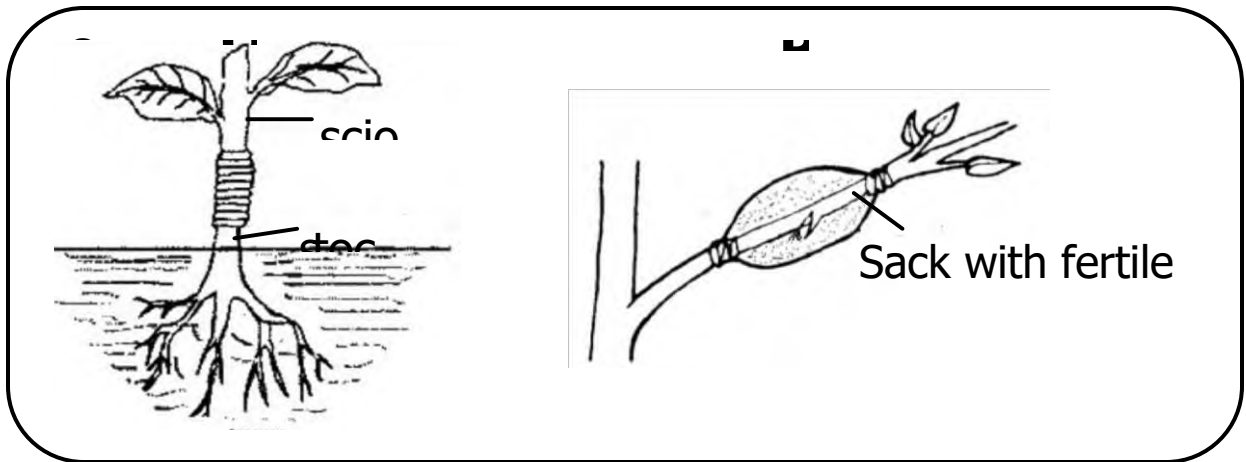
**53. The table below shows alloys, their combination and their uses. Study and complete it correctly.**

Alloy	Combination	Use
Solder	Lead and tin	----- -----
-----	Copper and zinc	For making ornaments
Bronze	-----	For making medals
Dental amalgam	Mercury and copper	----- -----

**54. a) Name the farm practice carried out in sheep that helps to;**

- i) make mating easy \_\_\_\_\_
- ii) control foot rot in sheep \_\_\_\_\_
- b) Give any two methods of grazing sheep.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_

**55. The diagram below shows artificial methods of vegetative plant propagation. Study and use it to answer the questions that follow.**



a) Name the artificial method of vegetative plant propagation marked O and P.

- i) **O** \_\_\_\_\_ ii) **P** \_\_\_\_\_
- b) State the importance of the fertile soil found in the sack on the method marked **P**.

c) Apart from the above methods, mention any one other artificial method of vegetative plant propagation.

***Good luck***