

THE JEROX PRE - PLE SET II ASSESSMENT 2022

Primary Seven Integrated Science

TIME ALLOWED: 2 HOURS 15 MINUTES

Index No.	Random No.					Personal No.		

NAME: _____

SCHOOL: _____

SIGNATURE: _____ DISTRICT: _____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two section A and B
2. Section A has 40 questions (40 marks) and Section B has 15 questions (60 marks)
3. Answer all questions in both sections A and B.
4. All answers must be written in the spaces provided in BLUE or BLACK ink.
Only diagrams should be drawn in pencil.
5. Unnecessary crossing will lead to loss of mark
6. Poor handwriting, which can not be easily read may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

Teacher's comment to the pupil

ORGANISED BY:

We follow the Abridged Curriculum



THE JEROX EDUCATIONAL CONSULTANCY-KAMPALA

PUBLISHERS OF THE JEROX HOLIDAY PACKAGE, DAILY PUPIL'S ACTIVITY BOOKS, READING AND SPELLING STRATEGY BOOKS

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SECTION: A (40 Marks)

(Questions 1 to 40 carry one mark each)

1. Mention **one** example of a social insect.

2. How is brushing of teeth every after a meal important?

3. State any **one** characteristic of dairy cattle.

4. Write any **one** item a necessary for a bean seed to undergo a biological change.

5. Why is distilled water not recommended for drinking?

The diagram below shows part of a flower, use it to answer question 6.



6. What scientific name refers to the part of a flower drawn above?

7. Give the main function of kidneys in the human body.

8. State **one** similarity between a fish and a toad in terms of reproduction.

9. How do deciduous plants reduce the rate of transpiration in a dry season?

10. Apart from coal, name any other fossil fuel.

11. State **one** disadvantage of producing many children in a family.

12. Give **one** reason why bees swarm.

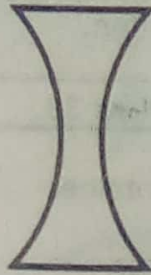
13. Mention **one** danger of smoking to an expectant mother.

14. How does the use of simple machines simplify people's work?

15. State the main cause of fainting to a human being.

16. Name **one** example of a simple leaf.

The diagram below shows a lens. Use it to answer questions 17 and 18.



17. Name the type of lens shown in the diagram above.

18. Which eye defect is corrected using the type of lens named above?

19. Give a reason why objects weigh less in water than air.

20. Mention **one** way of acquiring natural immunity.

21. How does sun drying help in preservation of food?

22. Give any **one** importance of physical exercises to the human body.

23. Mention **one** way trees control soil erosion.

24. Give any **one** example of animal fibre.

25. Why is rusting called a chemical change?

26. What is the importance of blubber to cetaceans?

27. State any **one** characteristic of images formed by plane mirrors.

28. Write down any **one** health concern in the community.

29. Mention any **one** disease that attacks both rabbits and poultry.

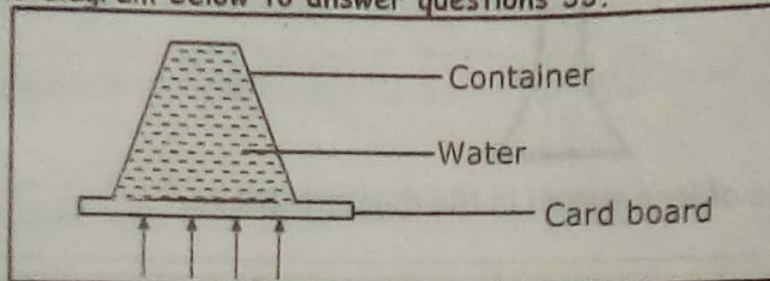
30. Name the vector that spreads onchocerca volvulus.



31. Mention the pigment in the skin that protects the body against strong sun rays.

32. Give the meaning of the term dehydration.

Use the diagram below to answer questions 33.



33. State the property of air illustrated in the diagram above.

34. Name the instrument used to measure human body temperature.

35. How are conifers different from other non-flowering plants?

36. State any **one** disorder of the digestive system.

37. What is meant by the term agroforestry?

38. Mention any **one** way of controlling tick borne diseases on a cattle farm.

39. State any **one** importance of reflection of light to people.

40. How is convection important in our daily life.

SECTION B (60 marks)

(Questions 41 to 55 carry four marks)

41a) Write the meaning of the tern poultry.

b) Mention any **two** examples of poultry vices.

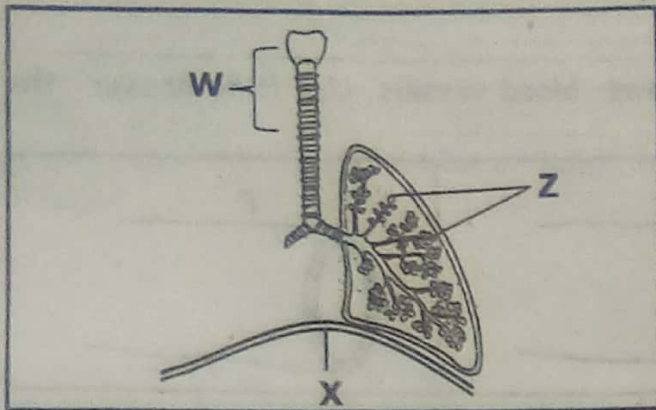
(i) _____

(ii) _____

c) How can a farmer control poultry vices on his /her farm?



42. The diagram below shows part of the respiratory system, use it to answer the questions that follow;



(a) Name the parts labeled **W** and **X**.

(i) **W** _____

(ii) **X** _____

(b) Mention the process that takes place in part labeled **Z**.

(c) State **one** way the respiratory system can be kept in a healthy working condition.

43.a) What do we call the changes that take place in living things and contribute to the increase in the number of cells?

b) Mention any **two** examples of the above changes.

(i) _____

(ii) _____

(c) State any **one** characteristic of physical changes.

44.(a) Write any **one** property of magnets.

(b) List any **two** methods of magnetizing magnets.

(i) _____

(ii) _____

(c) Mention **one** method of demagnetizing magnets.

45.(a) Write the meaning of the term drug abuse.

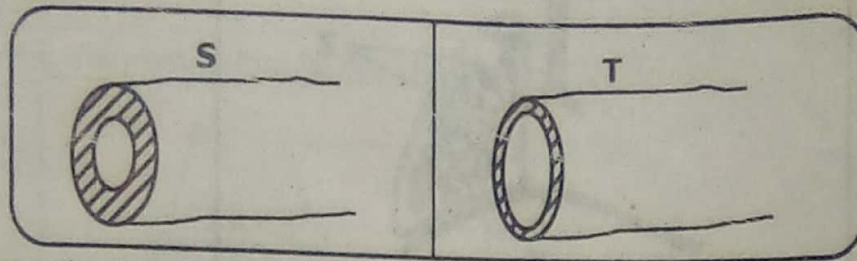
(b) Mention **two** examples of drugs of dependency.

(i) _____

(ii) _____

(c) State any **one** way an adolescent can resist the temptations of abusing drugs.

46. The diagram below shows blood vessels. Use it to answer the questions that follow:



(a) Name the blood vessels marked **S** and **T**.

(i) **S** _____

(ii) **T** _____

(b) How are valves important in blood vessel **T**?

(c) State one functional difference between blood vessels and **T**.

47(a) Write down any **two** methods of castration.

(i) _____

(ii) _____

(b) Mention any **one** reason for castrating animals.

(c) State any **one** danger of castration to animals.

48(a) In **one** sentence, write the meaning of the term pitch as used in sound.

(b) Mention any **two** factors that affect the pitch of sound.

(i) _____

(ii) _____

(c) In which **one** way can sound be stored?

49.(a) Match each disease in A to the cause in B.

A

(i) Rickets

(ii) Scurvy

(iii) Night blindness

(iv) Goitre

B

Lack of Vitamin **A**

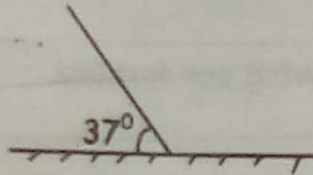
Lack of iodine

Lack of Vitamin **D**

Lack of vitamin **C**

- (i) Rickets _____
- (ii) Scurvy _____
- (iii) Night blindness _____
- (iv) Goitre _____

50. The diagram below shows reflection of light. Use it to answer the questions that follow.



- (a) Complete the diagram above correctly.
- (b) Calculate the angle of incidence. (2 marks)

(c) State any **one** law of reflection.

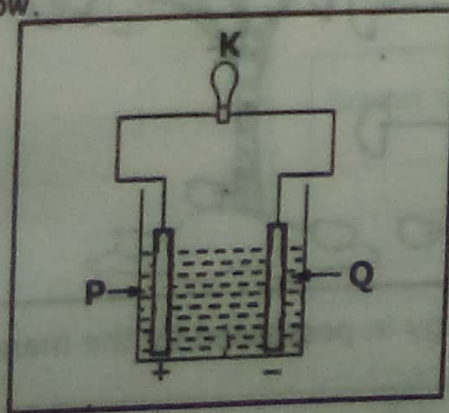
51. (a) Mention any **two** ways plants depends on animals.

- (i) _____
- (ii) _____

(b) How do animals ways animals depend on plants?

- (i) _____
- (ii) _____

52. The diagram below shows an electric cell. Use it to answer the questions that follow.



(a) Name the parts marked with letters **P** and **Q**.

- (i) **P** _____
- (ii) **Q** _____

(b) State any **one** function that limits the efficiency of the above cell.

(c) Give any **one** form of energy produced by part **K** when it is working.

53.(a) State any **one** way soil loses its fertility without growing crops

(b) State any **two** ways of improving soil fertility.

(i)

(ii)

(c) What is the effect of using herbicides to control weeds in the garden?

54.(a) Name any **two** properties of matter.

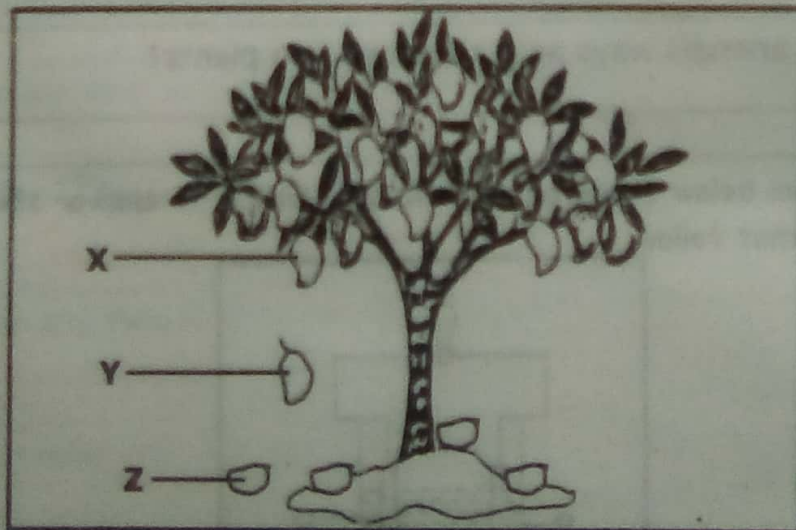
(i)

(ii)

(b) Write down any **one** effect of heat on matter.

(c) How is heat transfer by radiation important to crop farmers?

55. The diagram below shows a mango tree with ripe mangoes in different positions. Use it to answer the questions that follow.



(a) What type of energy is possessed by the mango at:

(i) **X**

(ii) **Y**

(b) Give **two** forms of energy produced when the mango reaches positions **Z**.

(i)

(ii)

SECTION A

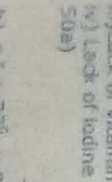
THE JEROX PRIMARY SEVEN SCIENCE PRE-PIE SET II MARKING GUIDE 2022.

1. A bee / wasp/ a termite/ red ant/ white ant
2. Prevents germs from hiding in teeth cavities.
3. They have a triangular body conformably/ they have big udders.
4. Oxygen/ moisture / water/ warmth.
5. It lacks mineral salts. 6. Pistol
7. To filters blood in the body.
8. Both undergo external fertilization/ both lay eggs
9. By shedding their leaves.
10. Petro/ Natural gas/ jet fuel/ diesel/ kerosene/ paraffin
11. It is expensive to pay medical bills/ It is expensive to feed them/ it is expensive to educate them,
12. Due to a bad smell in the area/ due to direct light into the hive/ due to too much noise in the area/ due to leakage of the hive/ due to death of the queen bee/ due to development of a new queen bee/ due to attack from enemies.
13. It leads to birth of underweight baby/ It leads to premature birth.
14. Less effort is applied to do work/ less time is taken to do work.
15. Shortage of oxygenated blood supply to the brain.
16. Simple entire leaf/ simple serrated leaf/ simple palmate leaf/ simple divided leaf/ simple lobed leaf.
17. Concave lens
18. Short sightedness / short sight/ myopia.
19. Due to Upthrust force/ due to buoyance.
20. Recovering from an illness/ from mother to baby during pregnancy/ through prolonged breast feeding/ through feeding on a balanced diet.
21. Heat from the sun dehydrates food/ heat from the sun drains water from food.
22. They promote blood circulation in the body/ they promote digestion of food/ they reduce excess fats from the body/ they control obesity/body fitness.
23. Trees reduce the strength of wind/ roots of trees reduce the speed of flowing water/ trees work as wind breakers.
24. Wool / silk/ fur/ mohair.
25. Rusting is irreversible/ rusting forms a new substance. 26. It keeps Cestercornis warm.
27. They have the same size as the objects/ they are upright/ erect/ they are equidistant with the objects/ they are laterally inverted/ they are virtual.
28. Inadequate food supply/ outbreak of diseases/ poor sanitation/ poor water supply.
29. Cocci/diarrhoea/ pneumonia/ Simulium/ blackfly/ junjaria

31. Melani
32. Dehydration is a condition when the body lacks enough water in it.
33. Air exerts pressure
34. Clinical thermometer/ doctor's thermometer.
35. Containers reproduce by means of seeds while other non-flowering plants reproduce by means of spores/ Conifers bear seeds in cones while other non-flowering plants spores.
36. Constipation / indigestion/ vomiting/ intestinal obstruction/ diarrhoea/ Heart burn.
37. Agro forestry is the growing of crops alongside trees on the same piece of land/ The growing of trees alongside other crops.
38. By dipping cattle in acaricides/ by handpicking ticks from cattle/ by carrying out rotational grazing.
39. Reflection enables drivers to see the traffic behind them/ reflection enables people to see their face in dressing mirrors/ reflection enables people to see objects around them.
40. It enables smoke to go out through the chimney of a kitchen/ it enables people to ball water/ it enables air circulation in people's houses.
- 41a) Poultry are all domestic birds kept at home for a purpose. b) Carnibalism/ egg eating/ feather pecking/ toe pecking.
- 42) Giving birds feeds in time/ giving birds enough feed/ spacing birds/ picking eggs in time/ putting laying boxes in corners.
- 42a) W-Trachea/ wind pipe
- X Diaphragm b) Gaseous exchange
- c) Doing regular physical exercises/ feeding on a balanced diet/ avoiding smoking.
- 43a) Biological changes.
- b) Growth/ germination/ shaking/ moulting.
- c) They are reversible/ they form no new substances.
- 44a) A freely suspended magnet rests facing in the North South direction/ When a bar magnet breaks into pieces, each piece becomes an independent magnet and acquires opposite poles/ magnetism can pass through nonmagnetic substances/ magnetism is strongest at poles/ magnets have a magnetic field around them/ lines of force of magnetism run from North pole to South pole.
- b) Induction method/ stroking method/ electrical method
- c) Hammering magnet/ heating magnets/ leaving magnets to lie in the East West direction for a long time/ leaving magnets with like poles together for a long time.

- 45a) Drug abuse is the use of a drug in a way that harms the body
- b) Alcohol / miraa/ coca/ tobacco/ marijuana/ opium
- c) Avoiding bad peer groups/ join useful clubs/ church choirs/ football/ netball clubs/ avoid idleness.

- c) Keeping him/ herself busy reading books/ joining football clubs/joining church choirs/ destroying all materials related to drugs of independence/ requiring pressure from peer groups.
- 46a) S - artery T-Vein
- b) Valves prevent the backward flow of blood
- c) Blood vessels transport oxygenated blood while blood vessel T transports deoxygenated blood / Blood vessel S transports blood from the heart while blood vessel T transports blood to the heart.
- 47a) Open castration/ closed castration
- b) To make animals humble/ to make animals grow fat / to make animals grow fast / to control inbreeding.
- c) Animals can bleed to death/ animals can feel a lot of pain
- 48a) Pitch is how high or low sound is / pitch is the highness or lowness of sound.
- b) Temperature / tension of the vibrating object/ nature of the vibrating object/ material / size/length of the material
- c) By recording on devices/ by writing notations.
- 49a) Lack of Vitamin D i) Lack of Vitamin C
- ii) Lack of iodine
- 50a)



- b) $i + 37^\circ = 90^\circ$ $<i + 37^\circ - 37^\circ = 90^\circ - 37^\circ = 53^\circ$ (Zicks)
- c) The incident ray, reflected ray and normal all lie in the same plane / the angle of incidence is equal to the angle of reflection
- 51a) Plants get carbon dioxide from animals/ plants get manure from animals/ plants are cared for animals (people)
- b) Animals get oxygen from plants/ animals get herbal medicine from plants / animals get shelter from plants/ Animals get food from plants.
- 52a) P-copper plate/ Q - zinc plate rod
- b) Local action/ polarization c) Light energy/ heat energy
- 53a) Through over grazing/ ground/ bush burning
- b) Ploughing / carrying out crop rotation/ carrying out ploughing/ carrying out agro forestry/ by adding manure/ artificial fertilisers.
- c) Herbicides have chemicals that destroy crops/ they reduce lower soil quality and fertility.
- 54a) Matter has weight/ matter occupies space/ has volume / matter has mass.
- b) Matter makes matter change state / heat makes matter increase in volume/ heat makes matter get denser.
- c) It enables farmers to dry their harvested crops/ heat can melt/ expand metals(solids).
- 55a) X - potential energy Y - kinetic energy
- b) Sound energy heat energy