

THE JEROX END OF TERM I EXAMINATIONS 2024

Primary Six Integrated Science

TIME ALLOWED: 2 HOURS 15 MINUTES

NAME _____

SCHOOL _____

STREAM _____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

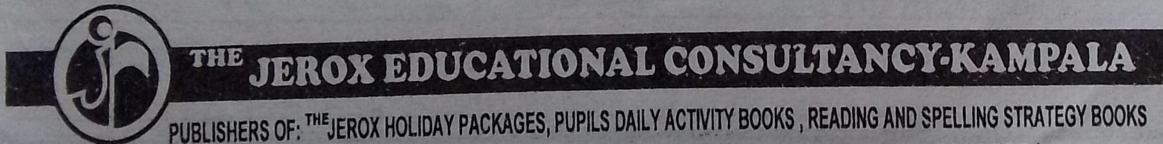
1. The paper is made up of two sections **A** and **B**.
2. Section **A** has **40** questions (**40** marks) and **B** has **15** questions (**60** marks)
3. Answer all questions in both sections **A** and **B**.
4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
Only diagrams and graph work be done in pencil.
5. Unnecessary crossing will lead to loss of marks.
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

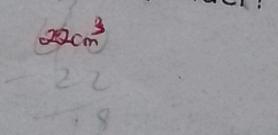
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SECTION A (40 Marks)

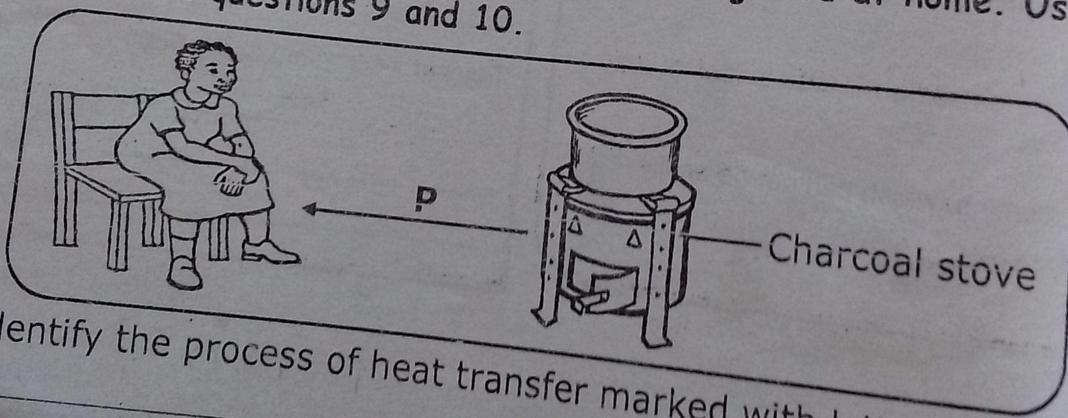
(Questions 1 to 40 carry one mark each)

1. Name **one** type of leaf venation in flowering plants.
2. Which body organ helps in controlling body posture as one moves?
3. Identify the type of energy a person posses while playing football.
4. Write at least **one** component of air which does not support burning.
5. Give the main reason why avocado fruits are included in our diet.
6. A stone of volume 22cm^3 was lowered in a measuring cylinder filled with 40cm^3 of water. How much water did the stone displace in the measuring cylinder?


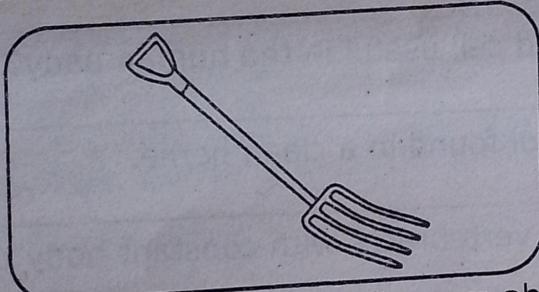
7. Give the main reason for your answer in No. 6 above.

8. Name **one** disease that affects the human eye.

The diagram below shows a mother preparing food at home. Use it to answer the questions 9 and 10.



9. Identify the process of heat transfer marked with letter P.
10. How is the process named in No. 9 above important to a fishmonger?

11. By which process does scent from flowers reach a moth, 80 metres away?
12. Give **one** importance of saliva during digestion of food.
13. State **one** of the main reasons for classifying a crocodile under reptiles.
14. Which type of soil do people need to make tiles?
15. Suggest **one** method of controlling airborne diseases in a community.
16. Write **one** example of plant care. *(supplying the right amount of light, water, fertilizer)*
17. Identify **one** traditional wind musical instrument.
18. How are beaks useful to pigeons when feeding?
- The diagram below shows a garden tool. Use it to answer questions 19 and 20.
- 
19. Name the garden tool shown in the diagram above.
20. State the function of the garden tool named in No. 9 above.
21. Write **one** group of living things.
Plant || Animals || Monerans || Prokaryotes || Fungi || Protists
22. Give **one** way people make use of wind at home.
23. In which part of alimentary canal does absorption of most water take place?
24. Name **one** element of primary Health Care practiced at home.



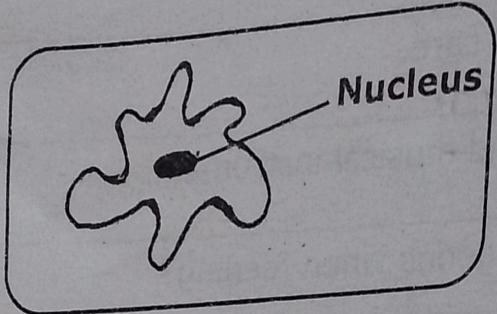
25. Identify the type of alcohol made by fermentation.

26. How is propagation of onions similar to that of beans?

27. Mention **one** animal that spends all its life time in water.

28. Suggest **one** way of killing germs in water for drinking.

The diagram below shows a blood cell. Use it to answer questions 29 and 30.



29. Identify the blood cell shown in the diagram above.

30. How is the above blood cell useful in the human body?

31. Name **one** sanitary tool found in a clean home.

32. Mention **one** group of vertebrates with constant body temperature.

33. Which term is used to refer to reflected sound wave?

34. Apart from broadcasting, name **one** other method of growing crops in the garden.

35. Name the triple vaccine used in the immunization process.

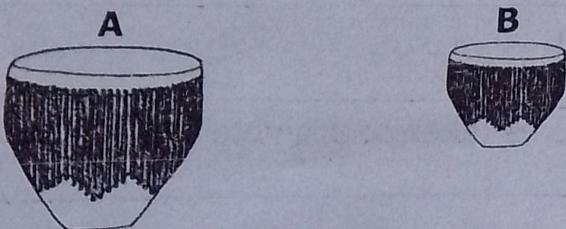
36. Identify **one** floating object a pupil uses during examination time.

37. Apart from swimming, state **one** other function of fins to a fish.
Protection // balancing // increasing speed

38. How does a housefly spread diarrhoeal diseases?



The diagram below shows musical instruments. Use it to answer questions 39 and 40.



39. Name the above musical instruments.

40. Which **one** of the above musical instruments would you choose in order to produce sound of high pitch?

SECTION B (60 Marks)

(Questions 41 to 55, carries four marks)

41. (a) What is wind?

(b) Name the weather instrument used to measure the speed of wind.

Anemometer // windmeter

(c) Suggest any **two** dangers of wind to people.

(ii)

(iii)

42. (a) Identify any **two** components of the circulatory system.

(i)

(ii)

(b) Draw the following blood vessels in the spaces below.

An artery	A vein

43. (a) Name any **two** insects which help in pollinating flowers.

(i)

(ii)

(b) What is the role of anthers during pollination?

(c) Which part of a flower forms a fruit after fertilization?

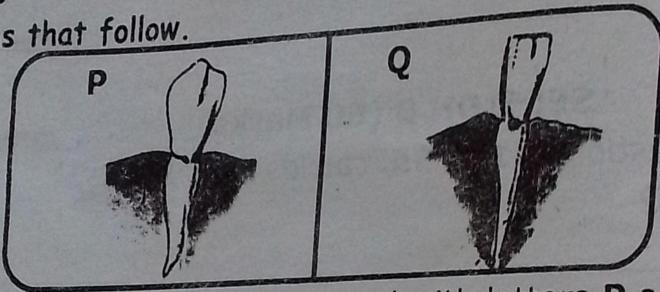
44. (a) Define oral health.

(b) State **two** measures taken to promote oral health.

(i) _____
(ii) _____

(c) Identify **one** danger of not observing proper oral health.

45. The diagram below shows examples of teeth. Use them to answer questions that follow.



(a) Name the types of teeth marked with letters **P** and **Q**.

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

(b) State the function of the tooth marked **Q**.

(c) How is the tooth marked **P** adapted to its function of tearing flesh?

46. (a) Name the **two** types of smoking tobacco.

(i) _____
(ii) _____

(b) State **one** reason people give for smoking tobacco.

(c) Identify the substance in tobacco smoke which causes addiction.

47. (a) What are immunisable diseases?

(b) Name any **two** immunisable diseases caused by virus.

(i) Measles / Polio / _____

(ii) Haemophilus influenzae / Hepatitis B / _____

(c) Which vaccine is given to babies to guard them against tuberculosis?



48. (a) Apart from floatation method, name **two** other methods of extracting honey (removal of honey from honey combs)

(i) Centrifuging || Pressing honey method || solar heater method
(ii) _____

(b) Give **two** ways in which honey is useful to people.

(i) _____
(ii) _____

49. (a) Name any **two** groups of reptiles that live in water.

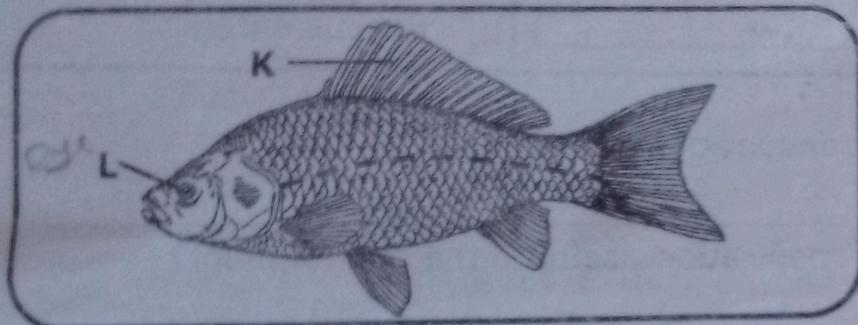
(i) Crocodilians (Crocodiles/alligators) || snakes
(ii) Testudines (Turtles and tortoises)

Ward

(b) State **two** ways through which reptiles are dangerous to people.

(i) _____
(ii) _____

Below is a diagram of a fish. Use it to answer the questions that follow.



50. (a) Name the part marked **K** and **L**.

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

(b) What name is given to a young fish?

Alevin

(c) State the function of the lateral line to a fish.

Detecting sound vibrations in water || Hearing || Detecting changes in water

51. (a) Give **two** ways of caring for vulnerable group of people.

(i) _____
(ii) _____

(b) Name **two** examples of vulnerable groups of people.

(i) _____
(ii) _____

52. (a) Write down **two** causes of soil erosion.

(i) _____
(ii) _____

(b) Which type of soil erosion is common in hilly areas?

(c) How is soil erosion controlled on gentle slopes?

53. The table below shows parts of a digestive system and the juices they produce. Fill in the missing information.

Parts of digestive system	Juice produced
Mouth	(i) _____
(ii) Liver	Bile
Pancreas	(iii) _____
(iv) Small intestine	Intestinal juice Succus entericus

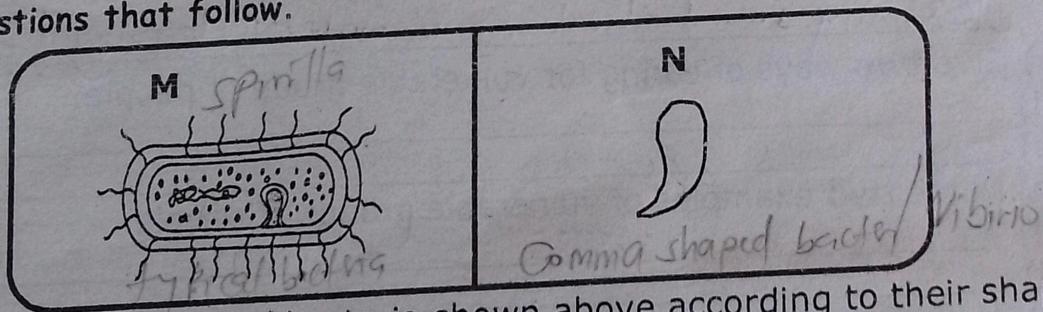
54. (a) What is transpiration?

(b) How is transpiration useful to the environment?

(c) State **two** ways in which plants reduce the rate of transpiration.

- (i) _____
(ii) _____

55. The diagram below shows types of bacteria. Use it to answer the questions that follow.



(a) Name the types of bacteria shown above according to their shapes.

- (i) M _____
(ii) N _____

(b) State **two** conditions that favour reproduction in bacteria.

- (i) _____
(ii) _____



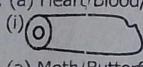
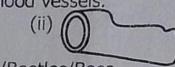
JEROX PRIMARY SIX SCIENCE END OF TERM I MARKING GUIDE 2024

SECTION A

1. Parallel leaf venation/Network leaf venation.
2. The ear.
3. Kinetic energy.
4. Carbon dioxide/Rare gases/Nitrogen.
5. Avocado fruits are a source of vitamin C.
6. The stone displaced **22cm³** of water in a measuring cylinder.
7. A stone displaces its own volume in water.
8. Trachoma/Night blindness/River blindness.
9. Radiation.
10. Helps in smoking fish/Helps in sundrying fish.
11. By diffusion.
12. Saliva softens food/Cools hot food in the mouth.
13. Crocodiles move by crawling/They have scales.
14. Clay soil.
15. Wearing face mask/Isolating infected people.
16. Weeding/Watering/Pruning/Spraying with pesticides.
17. Panpipes/Flute.
18. Beaks are used to pick food by pigeons.
19. Garden fork.
20. For turning manure/Spreaching manure.
21. Bacteria/Plants/Animals/Fungi/Viruses.
22. For winnowing/For flying kites.
23. In the colon.
24. Food and nutrition/Personal hygiene/Water and sanitation/Accidents and first aid.
25. Ethanol.
26. Both are propagated by means of seeds.
27. Fish/Whale/Dolphin.
28. By boiling water/Treating water with chemicals.
29. White blood cell.
30. Fight against disease causing germs.
31. Broom/Rake/Spade/Mop/cragl.
32. Birds/Mammals.

33. Echo.
34. Row planting.
35. DPT vaccine.
36. Pencil/Pen/Paper.
37. Fins helps in protection against enemies
38. By contaminating food.
39. Drums.
40. **B**

SECTION B

41. (a) Wind is a moving air/Wind is air in motion.
(b) Anemometer.
42. (a) Heart/Blood/Blood vessels.
(i)  (ii) 
43. (a) Moth/Butterfly/Beetles/Bees.
(b) Anthers produce pollen grains.
(c) Ovary.
44. (a) Oral health is the general cleanliness of the mouth.
(b) Brushing teeth everyday/Dental flossing.
(c) Causes tooth decay/Bad smell in the mouth/Plaque.
45. a) i) Canine. ii) Incisor.
(b) For cutting food/Biting food.
(c) Tooth P is sharp and pointed.
46. (a) Passive smoking/Active smoking.
(b) To warm their bodies/To feel mature/To relax their minds.
(c) Nicotine.
47. (a) Immunisable diseases are diseases controlled by immunization.
(b) Polio/Measles/COVID-19.

- (c) BCG vaccine.
48. (a) Centrifuging/Pressing the honey.
(b) Honey is used to make syrup for cough/Honey is used to add flavor to tea and bread/Honey is eaten to get energy.
49. (a) Crocodiles/Terrapins/Turtles.
(b) Snake bite people/Monitor lizards eat people's poultry/Crocodiles eat people.
50. (a) i) Tap root system.
ii) Fibrous root system.
(b) i) Accept any legume/Any fruit crop.
ii) Accept any cereal.
51. (a) Giving them a balanced diet/Medical care/Helping them to carry luggage/Washing for them clothes.
(b) Elderly/Weaning babies/Pregnant mothers/The sick.
52. (a) Over cultivation/Over grazing/Bush burning.
(b) Gully erosion.
(c) By making bands across the slope/Planting cover crops/Planting grass/Bush fallowing/Crop rotation.
53. (i) Saliva. (ii) Liver.
(iii) Pancreatic Juice. (iv) Ileum.
54. (a) Transpiration is the process by which plants lose water in form of vapour to the atmosphere.
(b) Transpiration helps in rain formation.
(c) By shedding off their leaves in dry season/Growing hairy leaves/Growing hairy leaves/Growing small leaves.
55. (a) M - Rod shaped bacteria.
N - Comma shaped bacteria.
(b) Presence of moisture/Water/Presence of oxygen/Warmth.