

KENYA PRIMARY SCHOOL EDUCATION ASSESSMENT**KPSEA 2026****INTEGRATED SCIENCE****Prediction 4****604 Time: 1 hour 40 minutes 50 marks**

Name

Assessment number

School

INSTRUCTIONS TO CANDIDATES

1. This question paper contains 50 questions. Answer ALL the questions.
2. Do any necessary rough work in this question paper.
3. For each question, choose only ONE correct answer from A, B, C and D.
4. Mark your answers on the separate answer sheet, NOT in this question paper.
5. Use an ordinary HB pencil. Completely shade the circle containing the letter you have chosen. Keep all shading inside the circle.
6. Keep the answer sheet clean and dry. Do not fold it.
7. Confirm that your name, assessment number, school and subject are correctly entered on the answer sheet.
8. Each correct answer carries 1 mark.

This examination paper consists of 8 printed pages. An answer sheet follows.

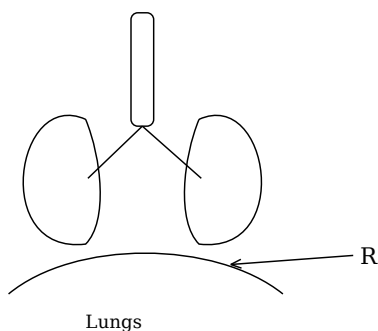
1. A learner gently touches a sensitive plant. Its leaves fold soon afterwards. Which characteristic of living things is shown?

- A. Excretion.
- B. Reproduction.
- C. Feeding.
- D. Sensitivity.

2. Two dough mixtures are kept warm. Only one contains yeast. That mixture rises because yeast produces

- A. soil particles.
- B. oxygen bubbles from photosynthesis.
- C. liquid oil.
- D. carbon dioxide.

3. The diagram shows parts involved in breathing. What is the main function of the part labelled R?



- A. Helping to change the size of the chest cavity during breathing.
- B. Grinding food into small pieces.
- C. Pumping blood to the toes.
- D. Absorbing digested food into the blood.

4. Which habit is most suitable when a learner reads a printed book?

- A. Look directly at the sun between pages.
- B. Rub dust into the eyes when tired.
- C. Read in very dim light for a long time.
- D. Use enough light and hold the book at a comfortable distance.

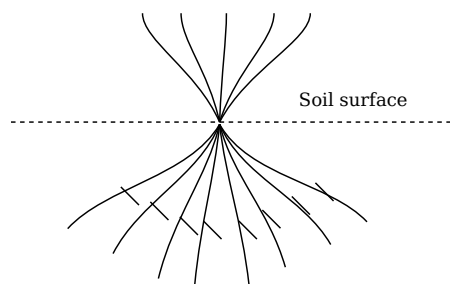
5. A cool metal lid is held above warm water. Drops form on its underside. Which change produces the drops?

- A. Condensation.
- B. Melting.
- C. Dissolving.
- D. Freezing.

6. Which pair of school wastes is most suitable for making compost?

- A. Plastic wrappers and batteries.
- B. Polythene bags and bottle tops.
- C. Vegetable peelings and dry leaves.
- D. Broken glass and metal cans.

7. Which root system is shown on the grass plant?



- A. Fibrous roots.
- B. Breathing roots growing above water.
- C. A swollen storage root.
- D. A single taproot.

8. Oil and water are left undisturbed in a clear container and form separate layers. What does this show?

- A. Both liquids have become a gas.
- B. The oil has changed into a solid.
- C. The water has disappeared.
- D. The liquids do not mix uniformly.

9. Water is poured from a round cup into a rectangular container without spilling. Which property stays the same?

- A. The outline of the space it occupies.
- B. Its volume.
- C. The shape of the container.
- D. The shape of its upper surface boundary.

10. A teacher places a steel spoon and a wooden spoon in the same hot water. Which handle becomes warm faster, and why?

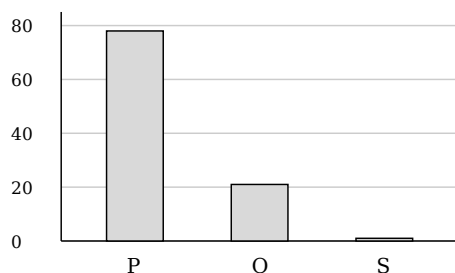
- A. Steel, because it prevents all heat transfer.
- B. Wood, because it is a better heat conductor.
- C. Steel, because it conducts heat more readily.
- D. Both stay cold because water cannot transfer heat.

11. Small hairs inside the nose help the breathing system mainly by

- A. producing all the oxygen needed by the body.
- B. digesting food before swallowing.
- C. pumping air into the blood.
- D. trapping some dust from inhaled air.

12. The graph represents gases in dry air: nitrogen, oxygen and other gases. Which bar represents oxygen?

Approximate percentage of dry air



- A. All three bars equally.
- B. Q.
- C. P.
- D. S.

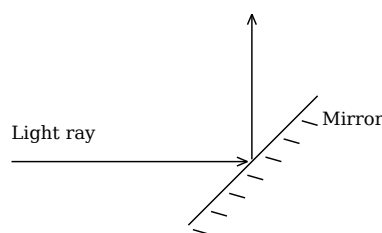
13. An empty, tightly capped plastic bottle floats on water. What is the main reason?

- A. The bottle has no mass at all.
- B. The bottle and enclosed air have a low average density.
- C. Gravity does not act on plastic.
- D. The cap changes water into ice.

14. Which statement correctly compares liquids and gases?

- A. Neither has mass.
- B. Both always have their own fixed shape.
- C. Neither occupies space.
- D. Both take the shape of the space containing them.

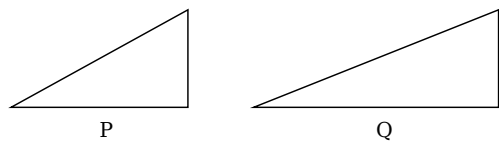
15. The diagram shows a light ray striking a mirror and changing direction. Which property of light is demonstrated?



- A. Evaporation.
- B. Dissolving.
- C. Magnetism.
- D. Reflection.

16. P and Q reach the same height. A load is pushed up each ramp. Ignoring friction, which needs less force?

Same vertical height



- A. P, because it is steeper.
- B. Q, because it lifts the load to a lower height.
- C. Q, because it is longer.
- D. Both need no force at all.

17. A learner presses a soft sponge between both hands. Which effect of force is most clearly shown?

- A. Producing a new material.
- B. Removing all the mass from an object.
- C. Changing the colour of an object.
- D. Changing the shape of an object.

18. A learner listens to recorded stories using headphones. Which practice best protects hearing?

- A. Use a sharp object to clean the ears while listening.
- B. Increase the volume whenever the ears hurt.
- C. Keep the volume at a comfortable low level.
- D. Always turn the volume to its maximum.

19. An animal has six legs, two feelers and a body divided into head, thorax and abdomen. It is most likely a

- A. grasshopper.
- B. earthworm.
- C. spider.
- D. snail.

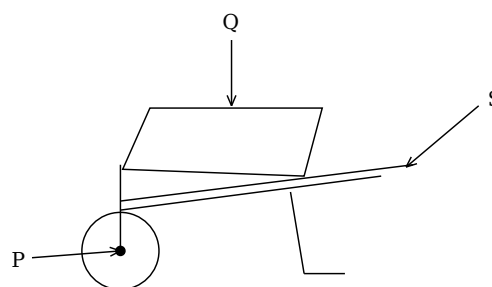
20. A door hinge is difficult to turn because its moving surfaces rub against each other. How does suitable lubrication help?

- A. It turns the hinge into a magnet.
- B. It reduces friction between the surfaces.
- C. It removes the door's weight completely.
- D. It increases friction until the door cannot move.

21. Which blood vessels carry blood towards the heart?

- A. Veins.
- B. Arteries.
- C. Food pipes.
- D. Air passages.

22. In the wheelbarrow shown, which labelled point acts as the pivot when the handles are raised?



- A. Q.
- B. P.
- C. All points equally.
- D. S.

23. Water near the bottom of a heated pot becomes warmer and rises while cooler water sinks. This transfer of heat is called

- A. reflection.
- B. magnetisation.
- C. convection.
- D. freezing.

24. A learner notices exposed wire on an electrical appliance at school. What is the best action?

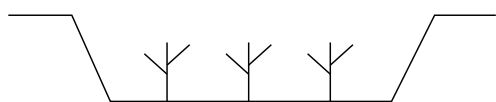
- A. Keep away and inform the teacher immediately.
- B. Ask another learner to hold the wire.
- C. Cover it with a wet cloth while it is connected.
- D. Touch the wire to test whether it is hot.

25. Which vertebrate has moist skin and can live both in water and on land during its life?

- A. Lizard.
- B. Frog.
- C. Goat.
- D. Pigeon.

26. A farmer in a dry area uses the bed shown. What is its main advantage?

Ground level

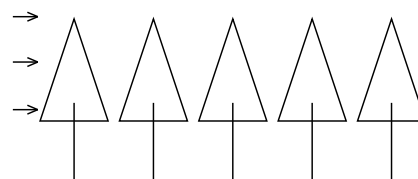


Sunken bed

- A. It keeps all rainwater away from the crops.
- B. It prevents roots from entering the soil.
- C. It helps collect and conserve water around crops.
- D. It stops every insect from reaching the crop.

27. The trees shown are planted along the edge of a field. Which type of soil erosion are they mainly intended to reduce?

Wind



Row of trees beside a field

- A. Damage caused only by hailstones.
- B. Soil movement caused by earthquakes.
- C. Wind erosion.
- D. Gully erosion caused by a river.

28. How does the row of trees in question 27 protect the soil?

- A. It lowers wind speed over the field.
- B. It turns loose soil into rock immediately.
- C. It increases wind speed at ground level.
- D. It removes every plant root in the field.

29. Which routine helps keep water supplied to poultry clean?

- A. Add litter to the drinking containers.
- B. Leave spilled feed to rot in the water.
- C. Place all drinking containers inside dirty drains.
- D. Empty, wash and refill the drinking containers regularly.

30. Why should an animal house have suitable ventilation?

- A. To prevent any daylight from entering.
- B. To allow fresh air in and stale air out.
- C. To make rain fall inside the house.
- D. To keep the animals without air.

31. A learner makes holes in the bottom of a crop-growing container. Why are the holes needed?

- A. To stop all roots from growing.
- B. To let excess water drain out.
- C. To let all the soil fall out at once.
- D. To prevent sunlight reaching the leaves.

32. Young seedlings are ready for transplanting on a hot, dry day. Which time is most suitable?

- A. Late in the afternoon when it is cooler.
- B. Only after the seedlings have wilted completely.
- C. At the hottest time with no water available.
- D. At midday when the sun is strongest.

33. Weeds are removed from a maize plot mainly because they

- A. compete with maize for water, nutrients and light.
- B. make maize roots unnecessary.
- C. prevent all insects from entering the plot.
- D. supply every nutrient that maize needs.

34. What is a main benefit of spreading dry grass mulch around vegetable plants?

- A. Removing the need for plant roots.
- B. Stopping all rain from entering the soil.
- C. Reducing loss of water from the soil.
- D. Making watering harmful to every crop.

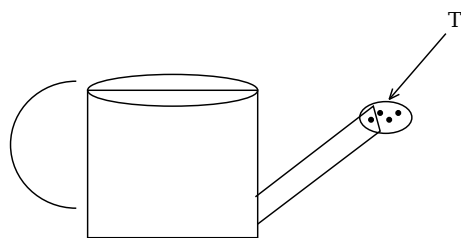
35. Which pair can be obtained from rabbits reared at home?

- A. Eggs and hides from cattle.
- B. Meat and manure.
- C. Milk and feathers.
- D. Honey and wool.

36. Which planting material is commonly used to establish Irish potatoes?

- A. Tubers with healthy buds.
- B. Onion seedlings.
- C. Sweet potato vine cuttings.
- D. Banana suckers.

37. What is the function of the part labelled T on the watering can?



Watering can

- A. To sharpen the handle.
- B. To remove roots from the nursery bed.
- C. To measure the depth of the soil.
- D. To spread water into gentle small streams.

38. How should the watering can be stored after use?

- A. Leave it across a busy path.
- B. Drop heavy stones into it before storage.
- C. Leave it full of dirty water in the sun for weeks.
- D. Empty it and keep it dry in a safe place.

39. Which food group is mainly added to a meal by including fresh vegetables and fruit?

- A. Only protein.
- B. Vitamins.
- C. Only fats.
- D. Only starch.

40. A shopper compares 1 kg of flour at Ksh 90 with 2 kg of the same flour at Ksh 170. Which gives a lower cost per kilogram?

- A. The 1 kg packet.
- B. Both cost Ksh 90 per kilogram.
- C. The 2 kg packet.
- D. Neither packet contains flour.

41. Bread is cooked in an oven using mainly dry heat. Which cooking method is used?

- A. Shallow frying.
- B. Boiling.
- C. Baking.
- D. Steaming.

42. A learner prepares a vegetable sandwich. Which sequence is most appropriate?

- A. Wash hands, serve the sandwich, then wash the vegetables.
- B. Wash hands, wash vegetables, slice them, then assemble the sandwich.
- C. Slice unwashed vegetables, assemble the sandwich, then wash hands.
- D. Assemble the sandwich, wash the bread, then slice vegetables.

43. Which practice improves safety when using a pan on a cooker?

- A. Leave the handle projecting into a busy walkway.
- B. Place a loose cloth directly over the flame.
- C. Leave a small child to move a hot pan alone.
- D. Turn the handle away from the edge where it could be knocked.

44. Which clothing is most suitable for a hot day?

- A. A heavy lined jacket with several layers.
- B. A thick, tight woollen coat.
- C. A plastic raincoat worn in direct sun for comfort.
- D. A loose, light cotton shirt.

45. Which practice best promotes personal hygiene when using a bathing towel?

- A. Share a damp towel with everyone.
- B. Store a wet towel in a closed bag for many days.
- C. Use a clean personal towel and dry it properly after use.
- D. Leave a towel on a dirty floor before use.

46. Before buying a packet of biscuits, which check most directly helps avoid buying an expired product?

- A. Read the expiry date on the label.
- B. Choose the packet with the largest picture.
- C. Count the colours in the advertisement.
- D. Ask whether a famous person has advertised it.

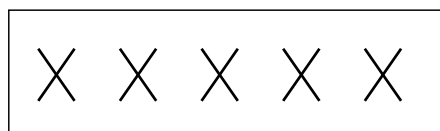
47. Which material is most suitable for wiping a glass window without scratching it?

- A. A sharp metal scraper used carelessly.
- B. A clean, soft cloth.
- C. A handful of coarse sand.
- D. A rough stone.

48. A coloured shirt has an unfamiliar stain. What should be checked before choosing a stain-removal method?

- A. Only the colour of the washing basin.
- B. The fabric care label and the kind of stain.
- C. Only the height of the washing line.
- D. The number of buttons on another shirt.

49. The stitches shown form repeated X shapes on the fabric. Which stitch is illustrated?



Fabric

- A. Chain stitch.
- B. Blanket stitch.
- C. Cross stitch.
- D. Running stitch.

50. A short section of a school uniform seam has opened. Which action is a suitable repair?

- A. Join the seam edges using suitable matching thread and secure stitches.
- B. Cut away a large piece of sound fabric.
- C. Remove every remaining seam from the uniform.
- D. Leave long loose threads across the opening.

END OF EXAMINATION PAPER

INTEGRATED SCIENCE - ANSWER SHEET

Name

Assessment number

School

Use an HB pencil. Shade one circle for each question.

- | | | | | | | | | | |
|----|-------------------------|-------------------------|-------------------------|-------------------------|----|-------------------------|-------------------------|-------------------------|-------------------------|
| 1 | ☐ A | ☐ B | ☐ C | ☐ D | 26 | ☐ A | ☐ B | ☐ C | ☐ D |
| 2 | ☐ A | ☐ B | ☐ C | ☐ D | 27 | ☐ A | ☐ B | ☐ C | ☐ D |
| 3 | ☐ A | ☐ B | ☐ C | ☐ D | 28 | ☐ A | ☐ B | ☐ C | ☐ D |
| 4 | ☐ A | ☐ B | ☐ C | ☐ D | 29 | ☐ A | ☐ B | ☐ C | ☐ D |
| 5 | ☐ A | ☐ B | ☐ C | ☐ D | 30 | ☐ A | ☐ B | ☐ C | ☐ D |
| 6 | ☐ A | ☐ B | ☐ C | ☐ D | 31 | ☐ A | ☐ B | ☐ C | ☐ D |
| 7 | ☐ A | ☐ B | ☐ C | ☐ D | 32 | ☐ A | ☐ B | ☐ C | ☐ D |
| 8 | ☐ A | ☐ B | ☐ C | ☐ D | 33 | ☐ A | ☐ B | ☐ C | ☐ D |
| 9 | ☐ A | ☐ B | ☐ C | ☐ D | 34 | ☐ A | ☐ B | ☐ C | ☐ D |
| 10 | ☐ A | ☐ B | ☐ C | ☐ D | 35 | ☐ A | ☐ B | ☐ C | ☐ D |
| 11 | ☐ A | ☐ B | ☐ C | ☐ D | 36 | ☐ A | ☐ B | ☐ C | ☐ D |
| 12 | ☐ A | ☐ B | ☐ C | ☐ D | 37 | ☐ A | ☐ B | ☐ C | ☐ D |
| 13 | ☐ A | ☐ B | ☐ C | ☐ D | 38 | ☐ A | ☐ B | ☐ C | ☐ D |
| 14 | ☐ A | ☐ B | ☐ C | ☐ D | 39 | ☐ A | ☐ B | ☐ C | ☐ D |
| 15 | ☐ A | ☐ B | ☐ C | ☐ D | 40 | ☐ A | ☐ B | ☐ C | ☐ D |
| 16 | ☐ A | ☐ B | ☐ C | ☐ D | 41 | ☐ A | ☐ B | ☐ C | ☐ D |
| 17 | ☐ A | ☐ B | ☐ C | ☐ D | 42 | ☐ A | ☐ B | ☐ C | ☐ D |
| 18 | ☐ A | ☐ B | ☐ C | ☐ D | 43 | ☐ A | ☐ B | ☐ C | ☐ D |
| 19 | ☐ A | ☐ B | ☐ C | ☐ D | 44 | ☐ A | ☐ B | ☐ C | ☐ D |
| 20 | ☐ A | ☐ B | ☐ C | ☐ D | 45 | ☐ A | ☐ B | ☐ C | ☐ D |
| 21 | ☐ A | ☐ B | ☐ C | ☐ D | 46 | ☐ A | ☐ B | ☐ C | ☐ D |
| 22 | ☐ A | ☐ B | ☐ C | ☐ D | 47 | ☐ A | ☐ B | ☐ C | ☐ D |
| 23 | ☐ A | ☐ B | ☐ C | ☐ D | 48 | ☐ A | ☐ B | ☐ C | ☐ D |
| 24 | ☐ A | ☐ B | ☐ C | ☐ D | 49 | ☐ A | ☐ B | ☐ C | ☐ D |
| 25 | ☐ A | ☐ B | ☐ C | ☐ D | 50 | ☐ A | ☐ B | ☐ C | ☐ D |