THE KENYA NATIONAL EXAMINATIONS COUNCIL

KPSEA 2025

604

INTEGRATED SCIENCE

3633348

Oct. 2025 – 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions. Answer **ALL** the questions.
2. Do any necessary rough work in this question paper.
3. When you have chosen your answer, mark it on the **ANSWER SHEET**, **NOT** in this question paper.

HOW TO USE THE ANSWER SHEET

4. Keep the answer sheet clean and do not fold it.
5. Use an ordinary (HB) pencil.
6. Confirm that the answer sheet that you have been provided with has the following:

   YOUR ASSESSMENT NUMBER
   YOUR NAME
   NAME OF YOUR SCHOOL
   NAME OF SUBJECT
7. For each of the questions, 1 – 50, four choices are given. The choices are lettered **A**, **B**, **C** and **D**. The letters are written inside circles. In each case, only **ONE** of the four choices is correct. Choose the correct answer.
8. On the answer sheet, show the correct answer by completely shading inside the circle which has the letter you have chosen.
9. Do not make any marks outside the circles. **Be sure of your answer before shading the circle.**

Example
In the Question paper:

24. A Grade 6 learner rolled a ball on the floor during a lesson on effects of force. Which one of the following effects of force was the learner demonstrating? Force can
A. change the size of a body
B. stop a moving body
C. change the direction of a moving body
D. move an object

The correct answer is D.

On the answer sheet:

In the set of circles numbered **24**, **shade** inside the circle with the letter D printed in it, as indicated below.

24. (A) (B) (C) ●

10. Your **shading MUST** be inside the circle.
11. For each question, shade **ONLY ONE** circle.

This question paper consists of 8 printed pages.
Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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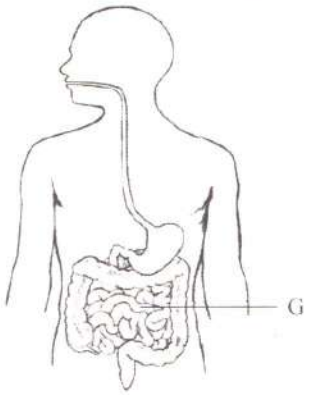
1. During a nature walk, learners saw a lizard on a rock. When the weather became hot, the lizard was seen under a shade. The behaviour of the lizard shows that as a living thing, it

A. moves from place to place
B. breathes
C. responds to environmental changes
D. feeds.

2. During a class discussion, learners listed the following as the benefits of fungi to humans:
(i) used as food
(ii) used to make medicine
(iii) used in baking
(iv) used in brewing

Which two benefits apply to yeast?
A. (i) and (ii)
B. (ii) and (iii)
C. (iii) and (iv)
D. (i) and (iv)

3. The following diagram represents the human digestive system.



Identify the part labeled **G.**

A. Large intestines.
B. Rectum.
C. Small intestines.
D. Stomach.

4. A person felt cold and decided to move to a nearby fire place. The sense organs involved in the person's action are

A. eyes and nose
B. ears and skin
C. nose and ears
D. skin and eyes.

5. Water cycle involves freezing, melting, evaporation and condensation processes.

Which of the following statements describes condensation?

A. Ice changing to water.
B. Water vapour changing to water.
C. Water changing to ice.
D. Water changing to water vapour.

6. After rains, a learner observed water flowing from farms to a nearby river. The learner concluded that the **main** pollutant of the river was

A. animal feed remains
B. used polythene bags
C. farm chemicals
D. sewage waste.

7. The following picture shows a modified root observed by learners during a lesson on functions of roots.



What is the function of the modified root?

A. Breathing.
B. Storage.
C. Anchorage.
D. Absorption.

8. Which of the following pairs of liquids will give a homogenous mixture when put together?

A. Water and kerosene.
B. Cooking oil and water.
C. Kerosene and cooking oil.
D. Milk and kerosene.

9. The following picture shows a composting practice used by learners to manage waste in their school.



The practice manages waste by

A. recycling and reusing
B. reducing only
C. reusing and reducing
D. recycling only.

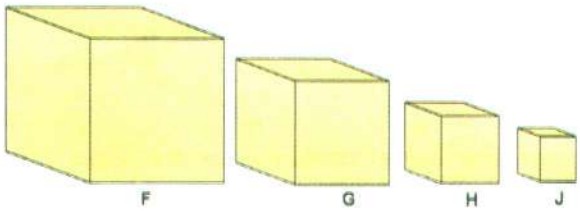
10. Ali, while standing outside the classroom, could clearly see other classmates through a glass window. When he smeared the window with petroleum jelly, he could no longer see the classmates. This is because the glass changed from

A. translucent to opaque
B. transparent to translucent
C. transparent to opaque
D. opaque to translucent.

11. Which of the following statements describes the functions of a trachea?

A. Allows the lungs to expand and cleans air.
B. Traps dust and allows air to pass.
C. Allows the lungs to expand and traps dust.
D. Cleans and absorbs air.

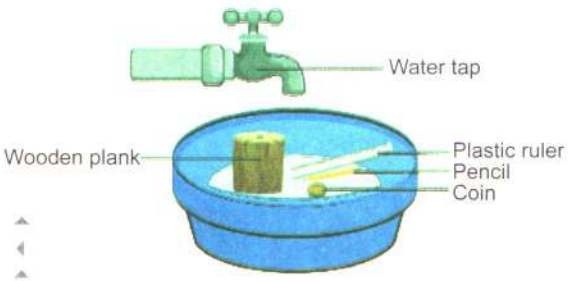
12. In an investigation on the different components of air, learners used blocks of different sizes to represent gases that make up air as shown.



Which of the blocks represents carbon dioxide gas?

A. F
B. G
C. H
D. J

13. A learner placed objects into an empty trough, filled it with water and observed what happened to the objects.



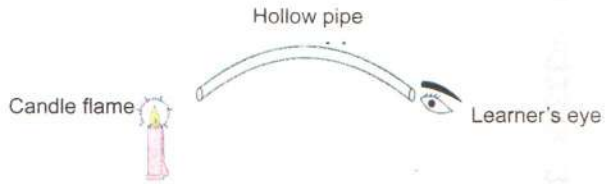
Which object remained at the bottom of the trough?

A. Plastic ruler.
B. Pencil.
C. Coin.
D. Wooden plank.

14. During a lesson on properties of matter, learners listed the properties of solids and gases as shown in the table.
Which property was **correctly** summarised for **both** solids and gases?

	Property	Solids	Gases
A.	has weight	Yes	No
B.	has definite mass	Yes	Yes
C.	has definite shape	No	Yes
D.	has definite volume	Yes	Yes

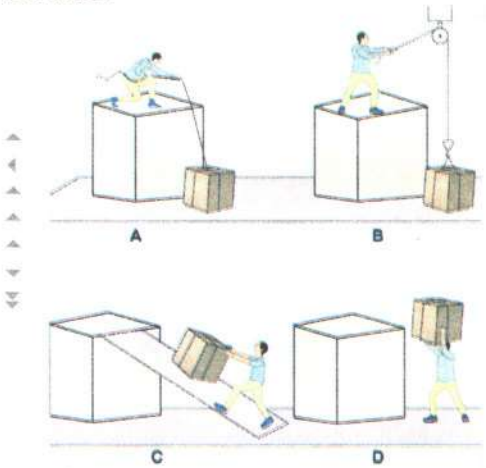
15. The following picture shows a set-up used by a learner to demonstrate a certain property of light.



The learner could not see the flame. What should the learner do in order to see the flame?

A. Move the pipe closer to the flame.
B. Bend the pipe more.
C. Make the pipe straight.
D. Move the pipe closer to the eye.

16. Workers at a construction site want to lift a load. Which of the following pictures shows the **easiest** way they can use to lift the load?



17. The following picture shows a learner playing with a ball.



Which of the following statements describes the effect of gravity as the learner plays with the ball?
Gravity makes the

A. ball to rise up from the hands
B. ball to fall back to the hands
C. hands to hit the ball
D. hands to lift the ball.

18. During a lesson on sources of sound, learners listed the following:

(i) a mobile phone
(ii) a siren of an ambulance
(iii) a guitar
(iv) a helicopter

Which pair of the sources produces sound that is more likely to harm the ears?

A. (i) and (ii)
B. (i) and (iii)
C. (ii) and (iv)
D. (iii) and (iv)

19. During a class discussion, learners gave the following as characteristics of an animal that they had observed in the school garden:

(i) has four pairs of legs
(ii) body is divided into two parts
(iii) has no backbone

The animal they observed is **likely** to be a

A. spider
B. grasshopper
C. beetle
D. ladybird.

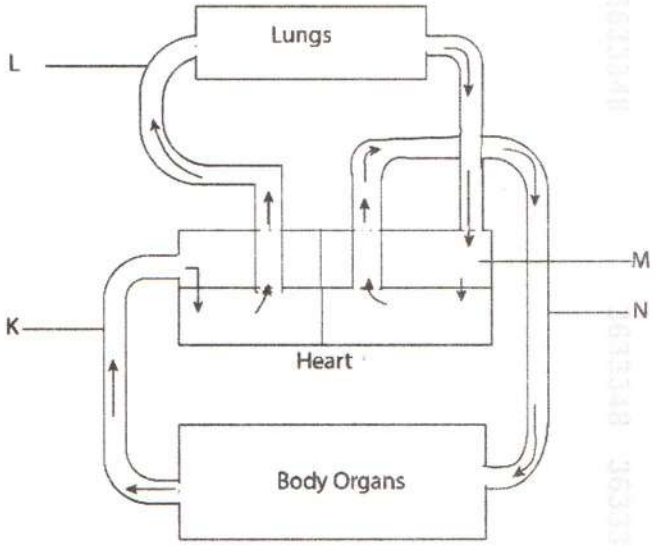
20. The following picture shows the sole of a learner's shoe.



The learner finds it difficult to walk in the shoe because the sole is

A. heavy
B. smooth
C. curved
D. hard.

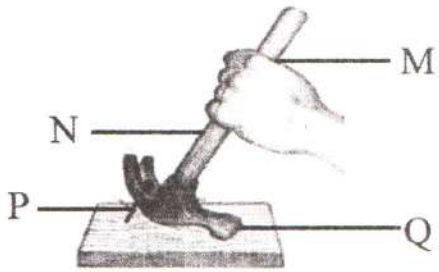
21. The following diagram represents a human circulatory system labelled **K**, **L**, **M** and **N**.



Which one of the following **correctly** represents the parts labelled **K**, **L**, **M** and **N** ?

	K	L	M	N
A.	Vena cava	Pulmonary vein	Left auricle	Aorta
B.	Aorta	Pulmonary artery	Right auricle	Vena cava
C.	Aorta	Pulmonary vein	Right auricle	Vena cava
D.	Vena cava	Pulmonary artery	Left auricle	Aorta

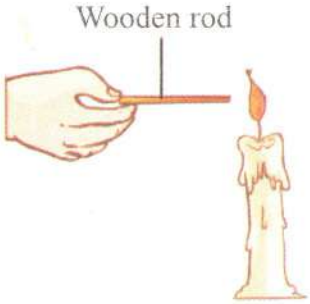
22. The following diagram shows how a carpenter used a hammer as a lever.



Which letter represents the pivot?

A. M
B. N
C. P
D. Q

23. A learner demonstrated heat transfer as shown in the following picture.



The heat did not reach the hand because

A. candle is a poor conductor of heat
B. heat was transferred upwards
C. heat from the candle was not enough
D. wood is a poor conductor of heat.

24. While searching for information on the uses of heat, a learner came across the following picture.



What safety measure should have been observed by the person cooking?

A. Wearing gloves.
B. Using one hand.
C. Using a bigger pan.
D. Putting hands in cold water.

25. During a lesson, learners listed the following as characteristics of vertebrates:

(i) have fins
(ii) body covered with scales
(iii) body temperature varies with the surrounding
(iv) breathe using gills

Which **two** characteristics are **only** found in fish?

A. (i) and (ii)
B. (i) and (iv)
C. (ii) and (iii)
D. (iii) and (iv)

26. The following picture shows a crop established on a special seedbed.



Why was the special seedbed used to establish the crop? To

A. conserve water
B. control soil erosion
C. protect the crop from pests
D. control weeds.

*Use the following information to answer questions **27** and **28**.*

While walking to school, a Grade 6 learner observed a piece of land affected by rill erosion.

27. Which of the following statements describes what the learner observed?

A. Deep U-shaped trenches.
B. Small V-shaped trenches.
C. Small holes left by detached soil.
D. Stones left after removal of soil.

28. The type of soil erosion observed by the learner was **most** likely caused by

A. strong wind
B. moving water
C. moving animals
D. road construction.

*Use the following information to answer questions **29** and **30**.*

Bright lights that blink at night were installed on a cattle shed.

29. What was the purpose of the blinking lights? To

A. attract cattle to the shed
B. guide the milkman
C. keep off wild animals
D. make the cattle sleep.

30. Which other device can be used instead of the blinking lights?

A. Hole trap.
B. Innovative sound.
C. Insect catcher.
D. Rat trap.

31. The **best** way of controlling weeds in a container garden is by

A. spraying with chemicals
B. cultivating using a jembe
C. mulching with dry grass
D. uprooting the weeds.

*The following picture shows a farmer carrying out a caring practice on an innovative garden. Use it to answer questions **32** to **34**.*



32. Identify the innovative garden.

A. Container garden.
B. Horizontal garden.
C. Sunken bed.
D. Vertical garden.

33. The **main** reason for using innovative gardening is to

A. prevent the spread of pests
B. control crop diseases
C. utilize limited space
D. prevent germination of weeds.

34. What is the **best** time to carry out the practice shown in the picture?

A. At midday.
B. Early in the morning.
C. When the sun is too hot.
D. When plants start to dry.

35. The following are some of the reasons for rearing domestic animals:

(i) alert on presence of strangers
(ii) provide fur and skins
(iii) provide manure
(iv) provide meat
(v) scare away, catch and eat rats.

Which of the following domestic animals is reared for **most** of the listed reasons?

A. Cat.
B. Chicken.
C. Dog.
D. Rabbit.

36. Which of the following planting materials is used to establish kales from a nursery bed?

A. Seeds.
B. Vines.
C. Splits.
D. Stem cuttings.

*Grade 5 learners used the garden tool shown in the picture on a tree nursery. Use the picture to answer questions **37** and **38**.*



37. What was the appropriate use of the tool on the tree nursery?

A. Applying fertilizer during transplanting.
B. Lifting seedlings during transplanting.
C. Pruning roots of seedlings.
D. Carrying manure.

38. For the tool to function well, it should be

A. cleaned
B. sharpened
C. oiled
D. painted.

39. Jay wants to build strong muscles in order to play in the school football team.

Which food group should he **increase** in his diet?

A. Carbohydrates.
B. Vitamins.
C. Proteins.
D. Fats.

40. Kalu wants to bake a cake. Which of the following can he use as an **improvised** baking tin?

A. Melamine bowl.
B. Hot sand.
C. Plastic bowl.
D. Sufuria.

41. A Grade 6 learner was asked by his teacher to explain the meaning of stewing food.

Which of the following would the learner give as the **correct** meaning?

Stewing food is cooking food

A. using steam
B. using dry heat
C. in water under low heat
D. in water under high heat.

*Use the following statement to answer questions **42** and **43**.*

Kevin wants to shallow fry an egg for breakfast using the following steps:

(i) pour the beaten egg into the pan
(ii) heat a little oil in a frying pan
(iii) beat the egg in a bowl using a fork
(iv) fry the egg and turn using a flat spoon and fry the other side.

42. Which is the **correct** order of steps Kevin should follow?

A. (iii), (iv), (i), (ii)
B. (iii), (ii), (i), (iv)
C. (iv), (i), (ii), (iii)
D. (iv), (i), (iii), (ii)

43. Which of the following is a **not** one of the safety measures Kevin should observe?

A. Putting the egg into the hot pan.
B. Do not splash water into the pan.
C. Keep flammable materials away.
D. Do not add oil to a wet pan.

44. Katana wants to buy a suit for his birthday. Which of the following is the **main** factor he should consider?

A. The colour should match that of his other suits.
B. The colour should match that of his friend's suit.
C. The suit should have bright colours.
D. The suit should be well fitting.

45. A nurse was invited to talk to Grade 6 learners on menstrual hygiene. Which of the following is a way of promoting menstrual hygiene that the nurse could have talked about?

A. Bathing every day.
B. Eating a balanced diet.
C. Applying body sprays.
D. Drinking plenty of water.

46. Your uncle wants to buy a household item after seeing advertisements. Which of the following would be an important point to consider before buying the item?

Choose the item

A. with attractive advertisements
B. that is rare and imported
C. advertised by popular people
D. where all information is provided.

47. Musa cleaned a certain surface using the following procedure:

(i) removing loose dust from the surface using a soft dry cloth
(ii) cleaning the surface using a soft cloth wrung out of warm soapy water
(iii) rinsing using a soft cloth wrung out of warm water
(iv) drying the surface using a dry cloth
(v) shining the surface using an old newspaper.

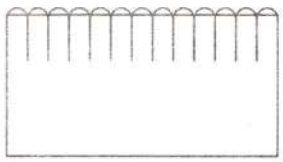
Which of the following surfaces did Musa clean?

A. Wooden surface.
B. Glass surface.
C. Cemented surface.
D. Earthen surface.

48. Ada soaked her stained blouse in cold water until the stain dissolved. Which stain did Ada's blouse have?

A. Chewing gum stain.
B. Rust stain.
C. Grass stain.
D. Blood stain.

49. Karen was happy to learn about stitches in school. Below is a diagram showing one of the stitches she made.



Which stitch did Karen make?

A. Back stitch.
B. Loop stitch.
C. Hemming stitch.
D. Chain stitch.

50. Michael's shirt has a damaged pocket and some loose stitches. Which of the following is a factor he will consider when repairing the damaged pocket? The

A. size of his shirt
B. size of the pocket
C. type of the needle
D. colour of the thread.

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