



TARGETER WINGS

KENYA PRIMARY SCHOOL EDUCATION ASSESSMENT

GRADE 6 - YEAR 2025

INTEGRATED SCIENCE



TIME: 1 hour 40 minutes

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

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

HOW TO USE THE ANSWER SHEET

4. Use an ordinary pencil.
5. 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
6. Do not make any marks outside the boxes.
7. Keep the sheet as clean as possible and do not fold it.
8. For each of the questions 1 - 50, four choices are given. The choices are lettered A, B, C and D. In each case, only **ONE** of the four choices is correct. Choose the **correct answer from the choices**.
9. On the answer sheet, the correct answer is to be shown by drawing a **dark line** inside the box in which the letter you have chosen is written.

Example

In the Question Booklet:

17. Which one is **not** an air pollutant?
- A. Bad smell
 - B. Oil spillage
 - C. Dusty areas
 - D. Smoky areas

The correct answer is **B**.

On the Answer Sheet:

In the set of boxes numbered 17, draw a **dark line** inside the box with the letter **B** printed in it as indicated below.

14. [A] [B] [C] [D]

15. [A] [B] [C] [D]

16. [A] [B] [C] [D]

17. [A] [B] [C] **[B]**

10. Your **dark line** **MUST** be within the box.

11. For each question, **ONLY ONE** box is to be marked in each set of four boxes.

This question paper consists of 7 printed pages

SCIENCE AND TECHNOLOGY

1. During a Science lesson, the teacher asked Grade 6 learners to observe bread stored for one week. What should the learners expect to observe after the one week?
A. Bread becomes softer.
B. Bread smells nice.
C. Fungi growing on the bread.
D. Bread turns into powder.
2. Which one of the following is a characteristic of **both** snake and lizard?
A. Have scales.
B. Give birth to young ones.
C. Have fur.
D. Breathe through gills.
3. Which of the following is **not** a characteristic of plants? They
A. reproduce
B. feed
C. move from one place to another
D. grow
4. The picture below shows an example of an invertebrate.

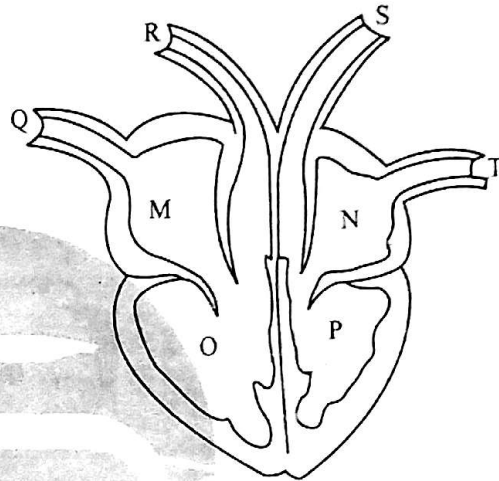


Which is the importance of the invertebrate shown above?

- A. Helps in soil aeration.
- B. Keeps away pests.
- C. Pollination of flowers.
- D. Transmission of diseases.

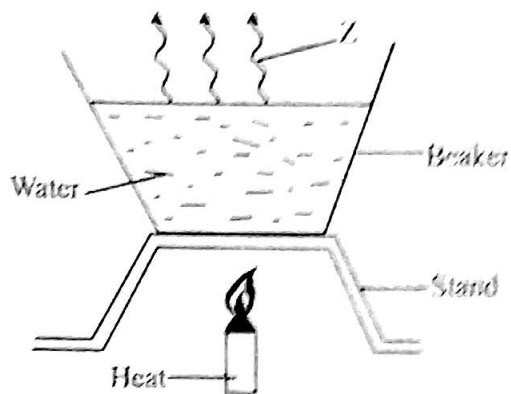
5. A pupil separated tea leaves from tea using a sieve. What property of the mixture made this possible?
A. One substance was magnetic.
B. One substance was insoluble.
C. One substance was heavy.
D. One substance floated.

The diagram below represents a mammalian heart.
Use it to answer questions 6 and 7.



6. Which pair of blood vessels shown above carries oxygenated blood?
A. R and Q
B. S and R
C. T and Q
D. S and T
7. Which one of the labelled chambers receives blood from the lungs?
A. N
B. M
C. O
D. P

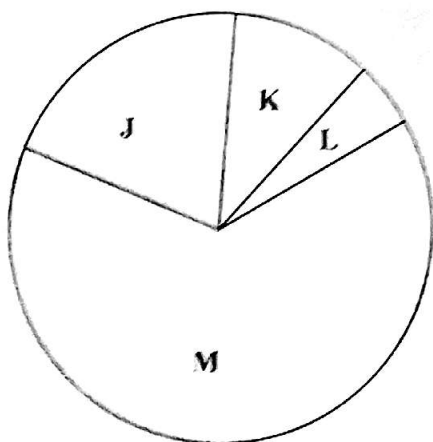
8. Grade 5 learners did the experiment as shown below.



The process taking place at Z is referred to as

- A. freezing
- B. melting
- C. condensation
- D. evaporation

The diagram below represents composition of gases in air. Use it to answer questions 9 and 10.



9. Which component represents the gas used in seed germination.

- A. J
- B. K
- C. L
- D. M

10. Which gas is represented by letter K?

- A. Carbon dioxide
- B. Inert gases
- C. Nitrogen
- D. Oxygen

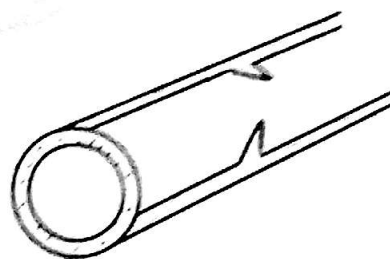
11. Which is the **best** method to use to separate a mixture of rice and beans?

- A. Winnowing
- B. Picking
- C. Sieving
- D. Decanting

12. Transfer of heat through a vacuum is known as

- A. conduction
- B. convection
- C. expansion
- D. radiation

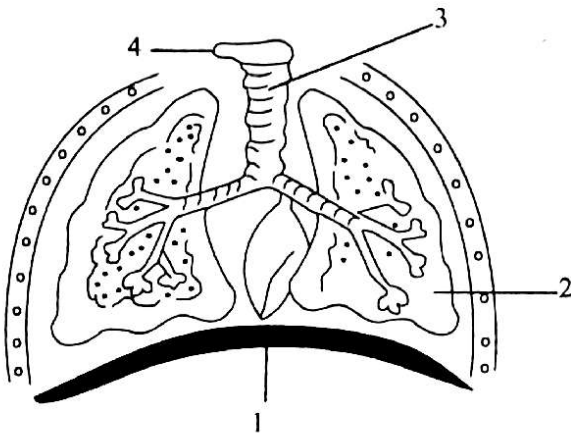
13. The diagram below shows the structure of a blood vessel.



Grade 6 pupils were asked to identify it. Who gave the **correct** answer?

- A. James → Capillarity
- B. Tom → Vein
- C. Mary → Artery
- D. Jane → Plasma

The diagram below shows the human breathing system. Use it to answer questions 14 and 15.



14. Exchange of gases takes place in the part labelled

- A. 1
- B. 3
- C. 2
- D. 4

15. Which of the labelled parts is made of sheet of muscles that separate the chest from abdomen?

- A. 1
- B. 4
- C. 3
- D. 2

16. Which of the following object is likely to float on water?

- A. Iron nail
- B. Plastic bottle
- C. Stone
- D. Coin

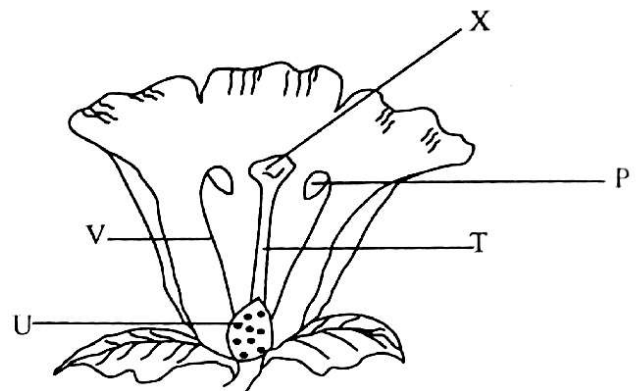
17. Which of the following is a type of fungi commonly used in baking?

- A. Mushroom
- B. Yeast
- C. Mould
- D. Toadstool

18. If waste is not managed well in a community, what is likely to happen?

- A. Reduced rainfall.
- B. Increased wildlife.
- C. Spread of diseases.
- D. Growth of trees.

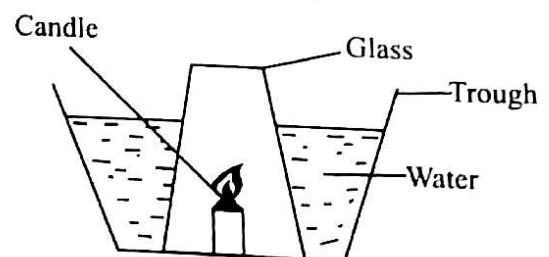
19. The diagram below shows parts of a flower.



The parts representing the stigma and filament respectively are

- A. P and T
- B. X and V
- C. P and V
- D. X and T

20. Grade 5 learners conducted the experiment below to investigate presence of a certain gas in the atmosphere. Identify the gas.



- A. Nitrogen
- B. Carbon dioxide
- C. Inert gases
- D. Oxygen

21. Mercy put a jiko with burning charcoal on the floor. Through which process did heat reach the roof?

- A. Convection
- B. Conduction
- C. Radiation
- D. Expansion

22. Which of the following items can be used to represent the lungs when making a model of the breathing system?

- A. Rubber band
- B. Balloon
- C. Straw
- D. Plastic bottles

23. Which one is **not** a disease of the breathing system?

- A. Common cold
- B. Allergy
- C. Vomiting
- D. Cough

24. Which process occurs when naphthalene gas is cooled and changes directly to solid?

- A. Deposition
- B. Condensation
- C. Evaporation
- D. Sublimation

25. Which of the following is a mammal that lays eggs?

- A. Snake
- B. Bat
- C. Duck
- D. Duck-billed platypus

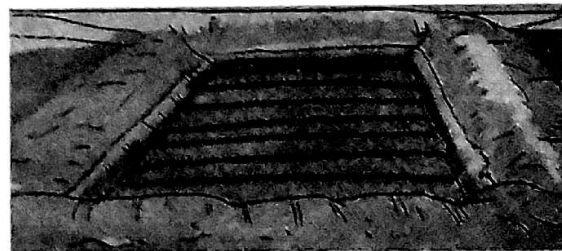
AGRICULTURE

26. Identify the type of soil erosion in the picture below.



- A. Sheet erosion
- B. Gulley erosion
- C. Rill erosion
- D. Splash erosion

27. Grade 6 learners wanted to prepare a seedbed that would conserve soil moisture since the school had little water. They constructed the seedbed below.



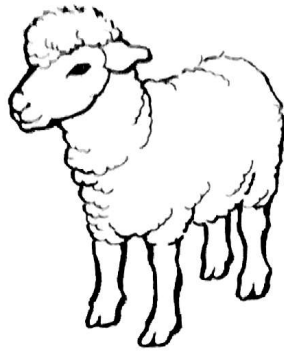
Which seedbed did they construct?

- A. Flat seedbed
- B. Top seedbed
- C. Raised seed bed
- D. Sunken seedbed

28. The following are ways of keeping off wild animals without harming them. Which one is **not**?

- A. Use of mesh fences.
- B. Use of innovative sound.
- C. Use of poison.
- D. Use of safe traps.

29. A farmer has reared the domestic animal in the picture below.



What food does it give him?

- A. Mohair
 - B. Milk
 - C. Hides
 - D. Mutton
30. Grade 6 learners decided to water their plants using a method that conserves water. The method they decided to use is as seen in the diagram.



Which water conservation method did they use?

- A. Drip irrigation
 - B. Sprinkler irrigation
 - C. Horse pipe irrigation
 - D. Sprayer irrigation
31. Which is the **best** farm tool to use when watering plants in a kitchen garden?
- A. Wheelbarrow
 - B. Bucket
 - C. Watering can
 - D. Tap

32. The process by which top soil is gradually removed from one place to another by running water or wind is known as
- A. soil degradation
 - B. soil deposition
 - C. soil erosion
 - D. soil eradication

33. Which of the following farm tools is used for transplanting seedlings?

- A. Fork jembe
- B. Garden trowel
- C. Slasher
- D. Spade

34. A farmer laid down plant materials on the soil at the base of the plant in order to prevent evaporation on the farm as shown in the diagram.

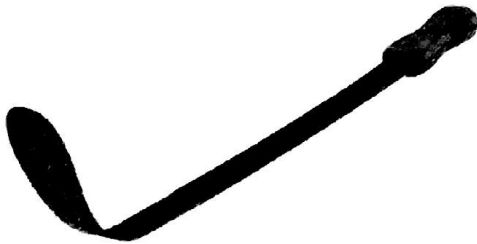


The practice is called

- A. Weeding
- B. Shading
- C. Mulching
- D. Watering

35. Which wild animal is **not** correctly matched with how it destroys crops?
- A. Bird - Eats maize grains in the farm.
 - B. Monkey - Eats fruits in the farm.
 - C. Squirrel - Eats leaves of crops.
 - D. Hare - Eats sukuma wiki leaves

36. Below is a farm tool



What is it used for?

- A. Scooping soil
 - B. Clearing vegetation
 - C. Cutting wood
 - D. Levelling soil
37. Grade 6 learners listed vegetables grown at home. Which one is **not** a vegetable?
- A. Spinach
 - B. Cabbage
 - C. Beans
 - D. Carrots
38. Which one is **not** the best routine practice to be carried out on rabbits when rearing them?
- A. Feeding them
 - B. Tying them
 - C. Controlling parasites
 - D. Housing them

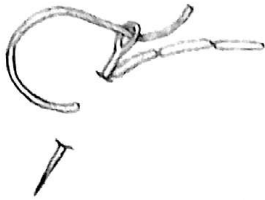
39. Grade 4 wanted to cook using the cooking equipment shown below.



Which fuel would they use?

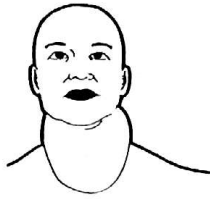
- A. Charcoal
 - B. Gas
 - C. Firewood
 - D. Kerosene
40. Grade 6 learners are constructing a house for guinea pigs in order to rear them in. The house is called
- A. hutch
 - B. sty
 - C. cage
 - D. kennel
41. Which one is **not** a reason for preserving and storing fruits and vegetables?
- A. To spend money.
 - B. To prevent them from getting spoilt.
 - C. To reduce wastage
 - D. To make them last longer
42. We learn about all the following types of stains on clothes **except**
- A. blood stain
 - B. water stain
 - C. grass stain
 - D. tea stain

43. Identify the type of stitch outlined below.



- A. Even stitch
- B. Long and short stitch
- C. Running stitch
- D. Back stitch

44. Identify the nutritional disease shown below.



- A. Goitre
- B. Kwashiorkor
- C. Anaemia
- D. Marasmus

45. Identify the kitchen tool shown below.



- A. Spoon
- B. Fork
- C. Rolling pin
- D. Cooking stick

46. Grace and her group listed the following as foods that can be cooked by stewing. Which one is **not** true?

- A. Beans
- B. French fries
- C. Beef
- D. Vegetables

47. Which food nutrients help to keep the body healthy and protected from diseases?

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

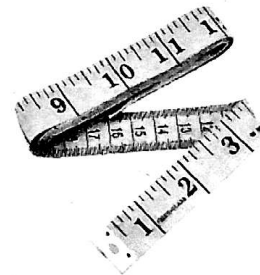
48. Which of the following tools is **not** needed when baking food?

- A. Scraper
- B. Pastry brush
- C. Whisk
- D. Frying pan

49. Rehema wants to sweep a dusty earthen floor. Identify one activity she should do before sweeping.

- A. Sweep the floor
- B. Sprinkle water on the floor
- C. Wash the floor
- D. Mop the floor

50. What is the item shown below used for?



- A. Taking measurement
- B. Sewing
- C. Protecting the fingers.
- D. Holding needles when not in use.