

KOTHARI INTERNATIONAL SCHOOL, NOIDA
HALF YEARLY EXAMINATION, SESSION: 2025-26
GRADE: 6 SUBJECT: SCIENCE
SET B SECTION B (SUBJECTIVE)

DAY & DATE: TUESDAY – SEPTEMBER 23, 2025

MAXIMUM MARKS: 60

TIME ALLOTTED: 2 HOURS 30 MINUTES

NAME: _____

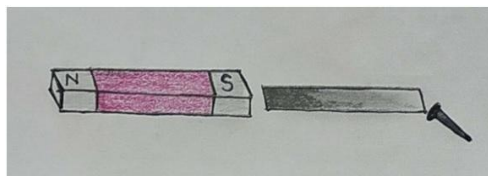
ROLL NO: _____

GENERAL INSTRUCTIONS:

- i). This question paper consists of 5 pages and contains 20 questions.*
- ii). Read the question paper carefully.*
- iii). All questions are compulsory to attempt.*
- iv). No question to be attempted on the question paper.*

SECTION B

- Q1.** Ruveer kept a magnet close to an ordinary iron bar. He observed that the iron bar attracts a pin as shown in Fig. (2)

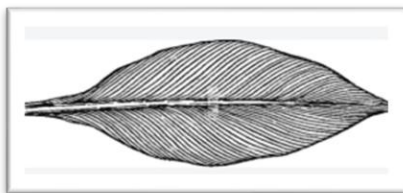


- What inference could he draw from this observation?
- Q2.** Would it be a good idea to use plastic materials for making cooking utensils? Explain your answer with one reason. (2)
- Q3.** During the COVID-19 pandemic, all of us wore masks. Generally, what material are they made of? What is the role of these masks? (2)
- Q4.** Some desert plants have very small leaves whereas some others have only spines. How does this benefit the plants? (2)
- Q5.** Two ring magnets X and Y are arranged as shown in figure given below. It is observed that the magnet X does not move down further. What could be the possible reason? Suggest a way to bring the magnet X in contact with magnet Y, without pushing either of the magnets. (2)



Q6. Rohit was very tired when he came back home after school. His mother gave him a glass of water with glucose dissolved in it. Rohit felt refreshed. Does drinking only glucose water suffice for all the nutritional demands? (2)

Q7. **Q8.** Rajesh took a leaf from a maize plant and began to draw its impression with the help of a pencil and paper. Below is the sketch of the impression of a maize leaf. (2)



a) What is the technical term for the design made by the veins of the leaf in the sketch?

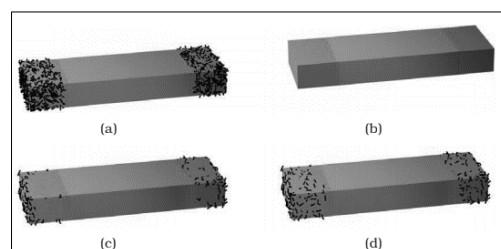
b) Which of the following plants can make a design like the banana leaf?

(i) Rose (ii) Bamboo (iii) Mango (iv) Hibiscus

Q8. Four identical iron bars were dipped in a heap of iron filings one by one. The figure shows the amount of iron filings sticking to each of them. (2)

(a) Which of the iron bar is likely to be the strongest magnet?

(b) Which of the iron bars is not a magnet? Justify your answer.



Q9. Camels inhabiting hot deserts and cold deserts exhibit remarkable adaptations to live in their respective environments. However, despite these adaptations, there are notable differences between the two types of camels. Identify three key differences between hot desert camels and cold desert camels. (3)

Q10. Observe the given picture and table to answer the following questions. (3)



Arjun



Yash

Arjun	Yash
Profession- Software Engineer	Profession- Cricketer
Eating Habits-French fries/butter/Pizza/Burger/Fried rice/Cheese	Eating Habits- Vegetables/Shakes/Fruits/Sprouts/Salad/Dal/Meat
Routine- No fixed meals, no fixed routine.	Routine- Fixed routine, fixed meals

a) which component of food does Arjun have in excess in his diet?

b) What kind of diet does Yash have?

c) Write two features which may have a negative effect on Arjun's health.

- Q11.** A mixture contains potatoes, salt, and sawdust. Using the method of separation, draw a **flowchart** to show the stepwise procedure for separating each component from the mixture. (3)
- Q12.** Two types of bananas are available in your nearby store. One is grown on a farm in your state, and the other is flown in from a country 4000km away. Based on the concept of **food miles**, which banana would be more environmentally friendly to buy and why? Support your answer with two reasons. (3)
- Q13.** Rahul kept his bar magnets together in a box for several weeks. When he took them out, he noticed that they had become weak and had lost much of their magnetism. His teacher told him he should have used magnetic keepers. **Based on your understanding of magnets, answer the following questions.** (3)
- What are magnetic keepers?
 - Why are magnetic keepers used with bar magnets?
 - How would magnetic keepers have helped Rahul prevent his magnets from losing their strength?
- Q14.** A student says, "All shiny things are lustrous and all dull things are non-lustrous." Do you agree with this? Explain your answer with at least two examples. (3)
- Q15.** Riya has a plastic spoon, a metal key, a wooden stick, and a rubber band. She wants to test the conductivity of these materials. (2+1)
- Which of these objects show conductivity? Give reason for your answer.
 - Why do you think the other objects do not show conductivity?
- Q16.** Look at the image of a mountain goat and a goat found in the plains. Identify one similarity and two differences between them. (1+2)



(a) Mountain Goat



(b) Goat found in the plains

- Q17. Case Based Question** (2+1+2)

Traditionally Protected Forests: Sacred Groves

Sacred groves are undisturbed patches of forests. Their sizes may vary from quite small to very large. Sacred groves are found all over India. They are home to different kinds of plants and animals, including numerous medicinal plants. These are protected by the local community and no one is allowed to harm any animals and cut trees in these groves, or disturb the area. This way, sacred groves are a community protected treasure of biodiversity. But due to human intervention, we are seeing a disturbance in the balance between plants and animal's diversity.

On the basis of the understanding of the article above, answer the questions that follow:

- What are the reasons for biodiversity loss?
- Why do we need to protect our biodiversity?
- What steps have been taken by the government to protect the habitats of plants and animals?

Q18. India proudly promoted millets during its G20 Presidency, calling them the “super grains of the future.” (2+1+2)

On the basis of your understanding on millets, answer the following questions.

- What are millets? Why are they called “nutri-cereals”?
- Why is millet considered good for people trying to lose weight?
- How do millets help farmers and the Earth? Write two points.

Q19. Case Based Question (2+2+1)

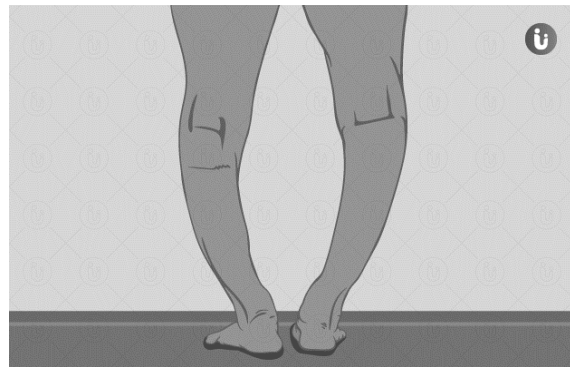
“Kachra Ma Thi Kanchan” (Turning waste into gold)

Ravi’s teacher told the class that not all waste is the same. Some waste can be recycled, while some needs special care. She taught them to sort materials before throwing them away. At home, Ravi made three bins: one for paper and cardboard, one for plastics and metals, and one for food waste. He labeled each bin and asked his family to use them properly. When the garbage collector came, he was happy to see the waste already sorted. This made recycling easier and kept their surroundings clean.

Answer the following questions.

- Why is it important to sort waste before throwing it away?
- How does sorting materials help the garbage collector and the environment?
- List any two types of waste materials mentioned in the case.

Q20. Ravi is a 10-year-old boy who lives in a city where he spends most of his time indoors and avoids playing in sunlight. Over time, his parents noticed that his legs appeared bent and he often complained about leg pain. A doctor diagnosed him with rickets, which is caused by a deficiency of a certain nutrient. The doctor advised changes in Ravi’s diet and daily routine. (1+2+2)



Answer the following questions based on the case and image:

- Which vitamin deficiency causes this disease?
- Will it be helpful for Rahul to expose himself to sunlight? Give reason for your answer.
- Name two food items Ravi should eat more of to improve his condition.