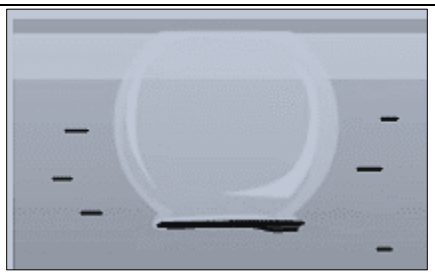
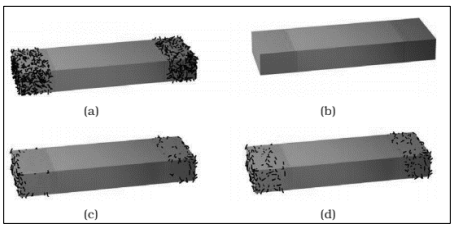
# KOTHARI INTERNATIONAL SCHOOL, NOIDA
## TERM END ASSESSMENT, SESSION: 2024-25
## GRADE: 6 SUBJECT: SCIENCE
## SET A
## SECTION B (SUBJECTIVE)

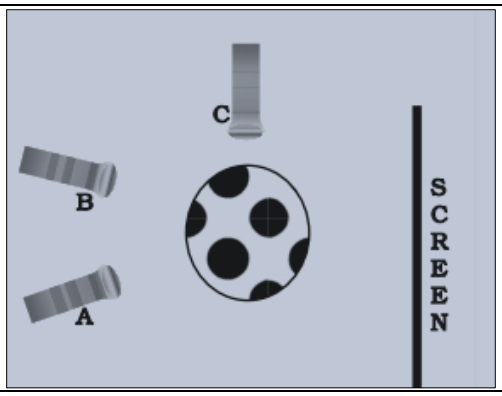
**DAY & DATE: WEDNESDAY - FEBRUARY 19, 2025** **MAXIMUM MARKS: 60**
**TIME ALLOTTED: 2HOURS 30 MINUTES**
**NAME: _____** **ROLL NO: _____**

***GENERAL INSTRUCTIONS:***

1. ***This question paper consists of 4 pages and contains 19 questions.***
2. ***Read the question paper carefully***
3. ***All questions are compulsory to attempt.***
4. ***No question to be attempted on the question paper.***

| | | |
|---|---|---|
| **Q1.** | Lemonade is prepared by mixing lemon juice and sugar in water.You wish to add ice to cool it.<br>**a) Should you add ice to the lemonade before or after dissolving sugar?**<br>**b) In which case would it be possible to dissolve more sugar ? and why ?** | **(2)** |
| **Q2.** |  <br>Prajesh took a leaf from the Mango tree and began to draw its impression with the help of a pencil and paper. Below is the sketch of the impression of the mango leaf.<br>**a) What is the technical term for the design made by the veins of the leaf in the sketch?**<br>**b) Which of the following plants can make a design like the Mango leaf?**<br>**(i) Grass (ii) Bamboo (iii) Maize (iv) Hibiscus** | **(2)** |
| **Q3.** |  <br>**Case Study:**<br>Jack and Jill went to nearby river with their teacher to get a pail of water. They took tumbler along with them. But Jack was unable to fill water in the tumbler. He put the tumbler in the well as shown in the figure.<br>**What must be wrong with Jack's method of filling water in the tumbler? Can you explain how to fix it and which property is discussed here?** | **(2)** |
| **Q4.** | Why could you not use an elastic measuring tape to measure distance? What would be some of the problems you would meet in telling someone about a distance you measured with an elastic tape? | **(2)** |
| **Q5.** |  <br>**F**our 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.<br>**(a) Which of the iron bar is likely to be the strongest magnet?**<br>**(b) Which of the iron bars is not a magnet? Justify your answer.** | **(1)**<br>**(1)** |

**Q6.**




Three torches A, B and C, shown in the figure are switched on one by one. The light from which of the torches will not form a shadow of the ball on the screen. And why? **(2)**

**Q7.**

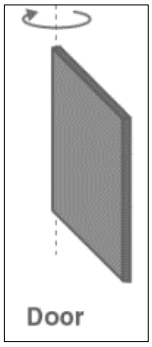



Fig 1

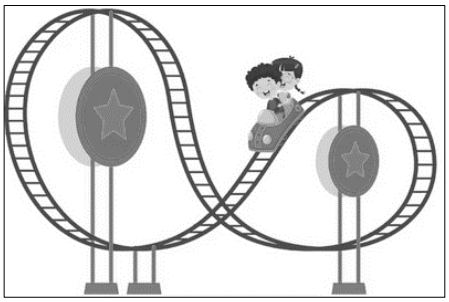


Fig 2

a) Identify the type of motions depicted in figure 1 and figure 2. **(1)**

b) How the motion shown in figure 2 is similar and different from figure 1 **(2)**

**Q8.**

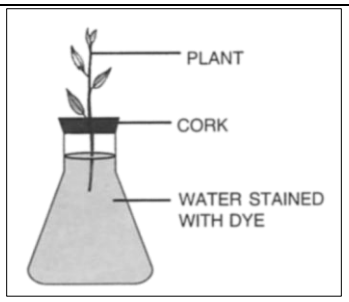
a) Correct and rewrite the following statements.

(i) Mirror allows the light to pass through it. **(2)**

(ii) Transparent objects allow light to pass through them partially.

b) Suggest a situation where we obtain more than one shadow of an object at a time. **(1)**

**Q9.**




Ravi conducted an experiment in which he filled a glass with one-third of water. He added a drop of red ink into that glass and stirred it for few minutes. He took a tender twig and made an oblique cut at the base of its stem and then put it into the water as shown in the figure.

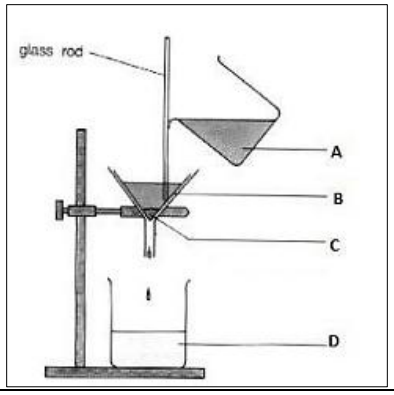
**a) What will Ravi observe if this set up is left undisturbed overnight?** **(1)**

**b) When Ravi made a cut at the base of the twig stem, he observed a drop of water collected at its end. What could be the reason for the appearance of this drop of water?** **(1)**

**c) What can be concluded from the experiment performed by Ravi?** **(1)**

**Q10.** Write an activity to show that a freely suspended bar magnet always comes to rest N -S direction. Support your answer with a diagram. **(3)**

**Q11.**



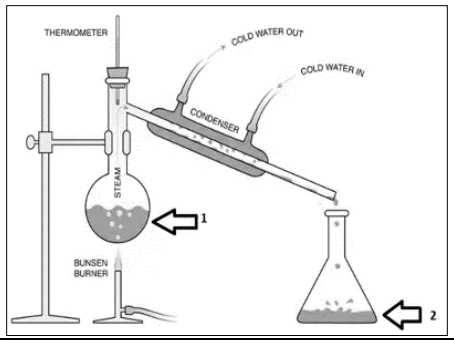

a) Identify the process and label the part C. **(1)**
b) How is this method better than sedimentation and decantation? **(1)**
c) Name one example from your daily life where you use this method of separation? **(1)**

**Q12.** **Case Study:**

As expected, Archie was fired up but a little nervous about the dive. With a quick comprehensive briefing, her dive instructor, Mridul calmed her down and after trimming her bouncy belt and oxygen cylinder, Archie was ready for her FIRST dive!! The dive lasted 45 minutes and she dove down to a depth of 6 feet. She could see beautiful plants corals and colourful fishes all around her. She could see bubbles coming out from her mouth. She returned to the boat totally exhilarated, full of tales of the underwater sea life she had seen.

**a) Write two properties of the gas coming out from Archie's mouth?** **(1)**
**b) Archie was fascinated by the aquatic flora and colourful fishes and was intrigued as to how they survived without breathing. Explain?** **(1)**
**(1)**

**Q13.**




a) Name all the processes shown in the figure. **(1)**
b) Name at least two solutions which can be present in beaker labelled 1. **(1)**
c) What would happen if we exchange the miscible solution in flask 1 with immiscible solution **(1)**

**Q14.** **a) Explain the reasons for the following statements:**

(i) A firki does not rotate in a closed area. **(3)**
(ii) The arrow of the weathercock points towards a particular direction at a particular moment.
(iii) An empty glass, in fact, is not empty.

**b) Why should we breathe through our nose and not our mouth?** **(2)**

**Q15.** a) Identify the images given below. **(1)**

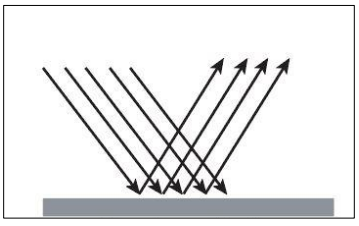


Figure 1

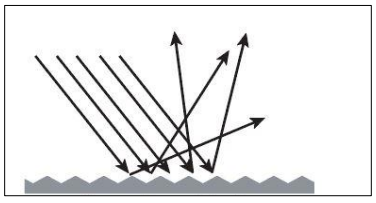
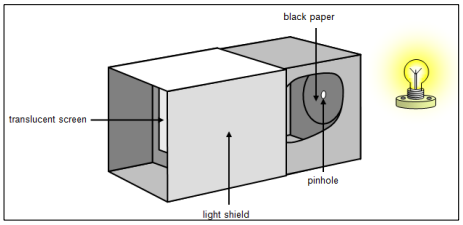
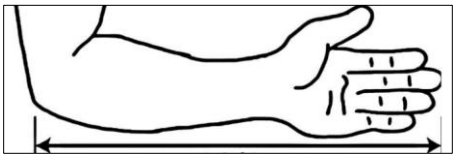
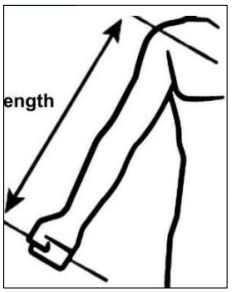
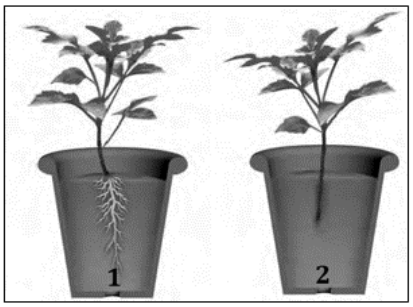
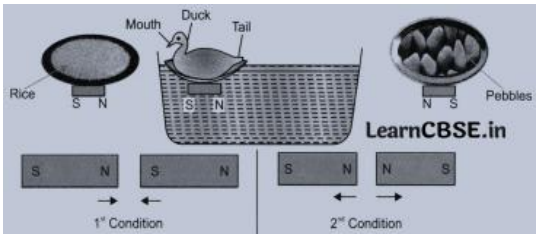


Figure 2

b) State two differences between them. **(2)**

| | | |
|---|---|---|
| | c) Identify the image shown and state its two primary characteristics.   | **(2)** |
| **Q16.** | a) Identify the figures A & B.    | **(1)** |
| | b) While measuring the length of a knitting needle, the reading of the scale at one end is 3.0 cm and at the other end is 33.1 cm. What is the length of the needle? | **(1)** |
| | c) The person's height is 2.65 m. Convert it to cm and mm. | **(1)** |
| | d)While travelling in a train, it appears that the trees near the track are moving whereas co-passengers appear to be stationary. Explain the reason. | **(2)** |
| **Q17.** | a) Suggest an arrangement to store a U shaped magnet. How is this different from storing a pair of bar magnets? Support your answer with a diagram. | **(2)** |
| | b) Where are the poles of a ring magnet? How will you find this? | **(2)** |
| **Q18.** |   Hrishi dug out two plants of the same kind with the roots from the soil. He planted one of these plants in Pot 1, and cut off the roots of other plant and planted it in pot 2 as shown in the picture. He watered both these plants for a week and compared their growth. | |
| | **a) Which pot will have healthy plant, and what could be a reason for this?** | **(1)** |
| | **b) Which plant can be easily pulled out and why?** | **(2)** |
| | **c) Can you think of one more function of root which prevents soil erosion?** | **(1)** |
| **Q19.** | a) Bhawana witnessed an interesting game at the fair. A duck was floating in a tub. When a plate containing some grains of rice was brought close to the duck, the duck moved towards the plate. But, when a plate containing some pebbles was brought close to; the duck, it moved away from the plate. Explain how this could have been possible.   | **(2)** |
| | b) Ravi is a carpenter. While working, few iron nails and screws got mixed with the wooden shavings. How can you help him in getting the nails and screws back from the scrap without wasting his time in searching with his hands? | **(2)** |