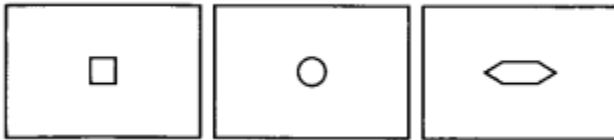


## Chapter-5

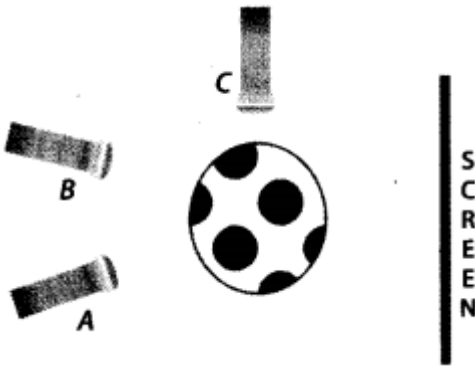
## LIGHT

## WORKSHEET

1. You have 3 opaque strips with very small holes of different shapes as shown in figure. If you obtain an image of the sun on a wall through these holes, will the image formed by these holes be the same or different?

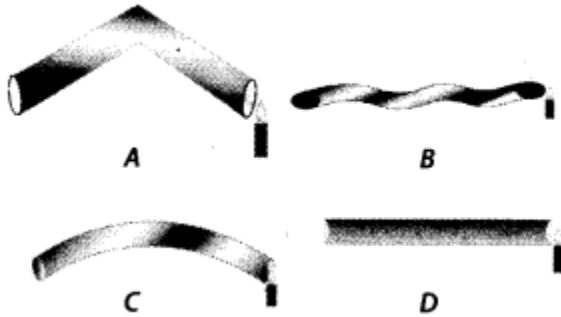


2. Three torches A, B and C shown in figure are switched on one by one. The light from which of the torches will not form a shadow of the ball on the screen.



3. Correct the following statements.
  - (i) The color of the shadow of an object depends on its color of the object.
  - (ii) Transparent objects allow light to pass through them partially.
4. Suggest a situation where we obtain more than one shadow of an object at a time.
5. You are given a transparent glass sheet. Suggest any two ways to make it translucent without breaking it.
6. Using a pinhole camera a student observes the image of two of his friends, standing in sunlight, wearing yellow and red shirt respectively. What will be the colours of the shirts in the image?

7. Two students while sitting across a table looked down on to its top surface. They noticed that they could see their own and each other's image. The table top is likely to be made of
- (a) unpolished wood
  - (b) red stone
  - (c) glass sheet
  - (d) wood top covered with cloth
8. Paheli observed the shadow of a tree at 8:00 a.m., 12:00 noon and 3:00 p.m. Which of the following statements is closest to her observation about the shape and size of the shadow?
- (a) The shape of the shadow of the tree changes but the size remains the same.
  - (b) The size of the shadow of the tree changes but the shape remains the same.
  - (c) Both the size and shape of the shadow of the tree change.
  - (d) Neither the shape nor the size of the shadow changes.
9. Four students A, B, C and D looked through pipes of different shapes to see a candle flame as shown in figure.



Who will be able to see the candle flame clearly?

- (a) A
  - (b) B
  - (c) C
  - (d) D
10. On a sunny day, does a bird or an aeroplane flying high in the sky cast its shadow on the ground? Under what circumstances can we see their shadow on the ground?