

MULTIPLE CHOICE QUESTIONS

1. Observe the picture given in Fig. 11.1 carefully.

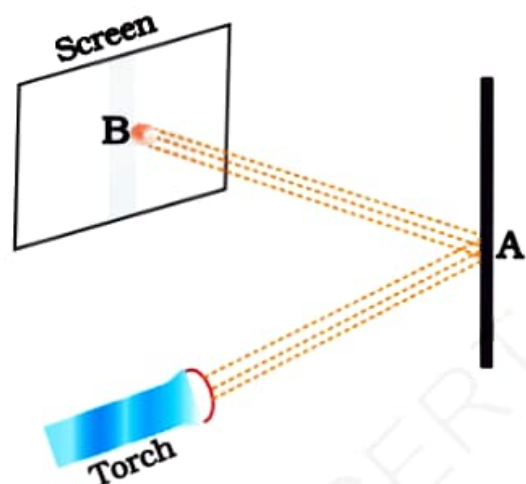


Fig. 11.1

A patch of light is obtained at B, when the torch is lighted as shown. Which of the following is kept at position A to get this patch of light?

- (a) A wooden board
- (b) A glass sheet
- (c) A mirror
- (d) A sheet of white paper,

2.



Fig. 11.2

A student observes a tree given in Fig. 11.2 through a pin hole camera. Which of the diagrams given in Fig. 11.3 (a) to (d), depicts the image seen by her correctly?

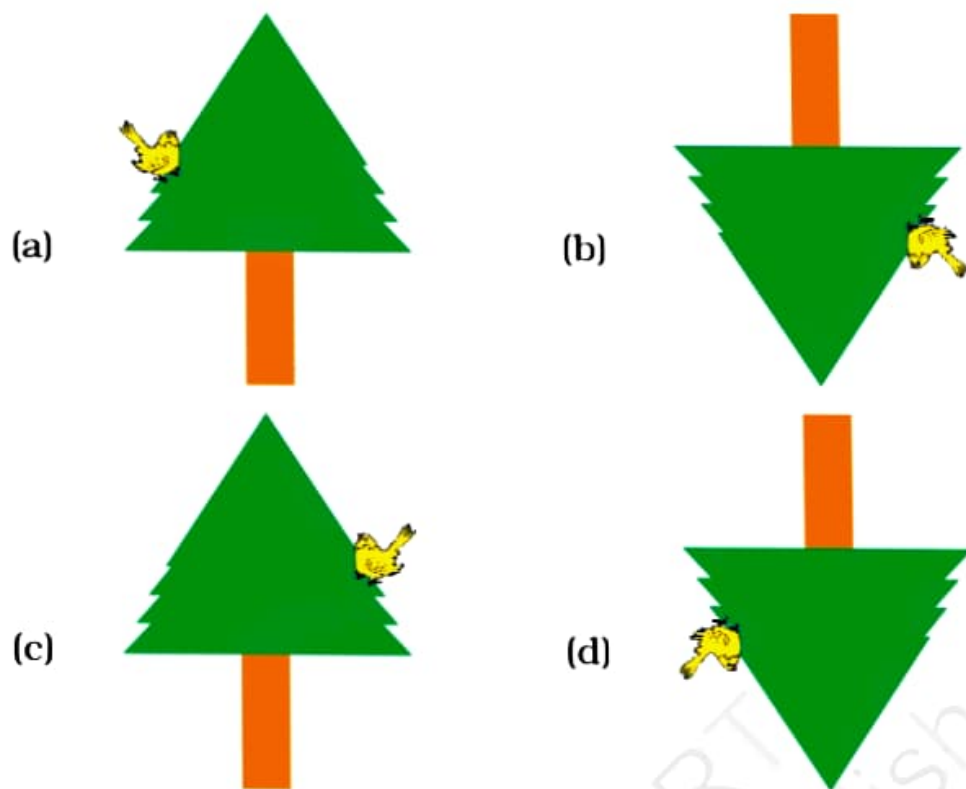


Fig. 11.3

3. Four students A, B, C and D looked through pipes of different shapes to see a candle flame as shown in Fig. 11.4.

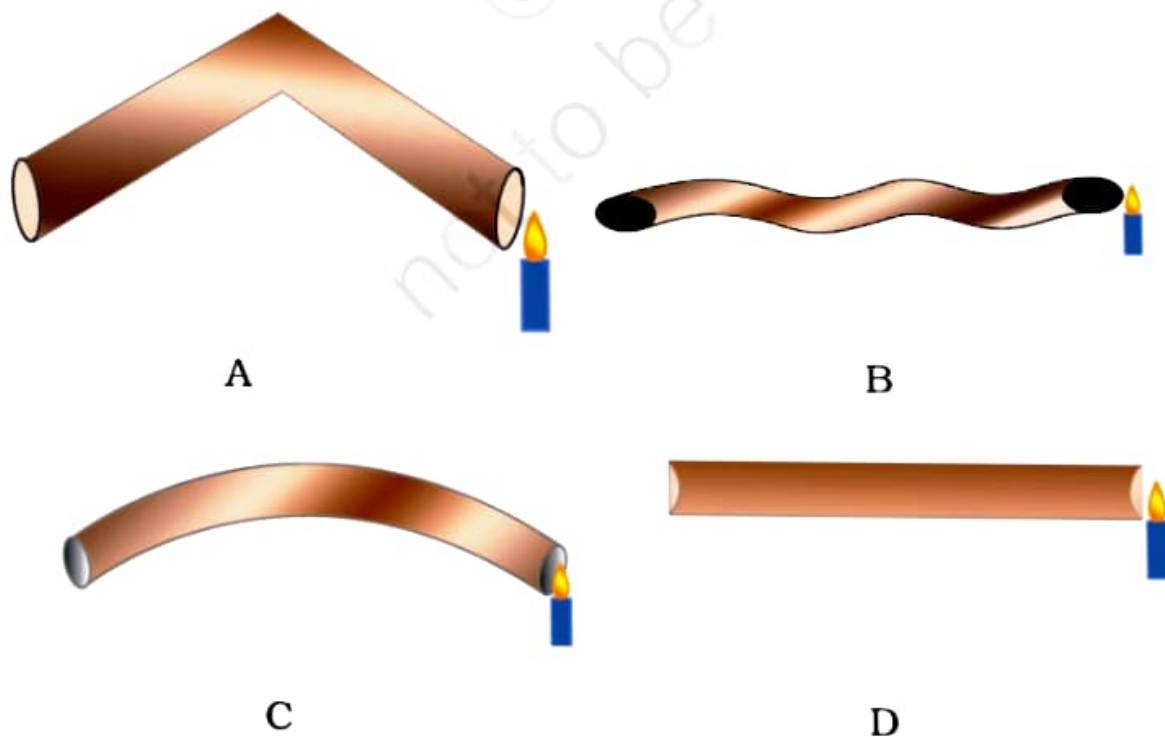


Fig. 11.4

Who will be able to see the candle flame clearly?

- | | |
|-------|-------|
| (a) A | (b) B |
| (c) C | (d) D |

4. Which of the following is/are not always necessary to observe a shadow?

- | | |
|---------------------|-------------------|
| (a) Sun | (b) Screen |
| (c) Source of light | (d) Opaque object |

5. 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.

6. Which of the following can never form a circular shadow?

- (a) A ball
- (b) A flat disc
- (c) A shoe box
- (d) An ice cream cone

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. You have 3 opaque strips with very small holes of different shapes as shown in Fig. 11.5. 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?

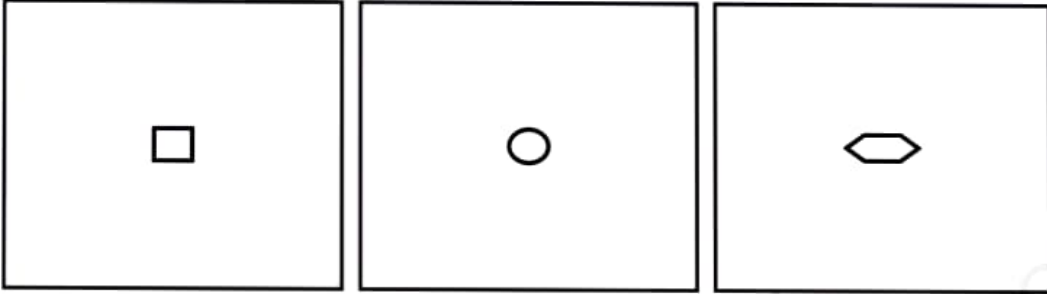


Fig. 11.5

9. Observe the picture given in Fig. 11.6. A sheet of some material is placed at position 'P', still the patch of light is obtained on the screen. What is the type of material of this sheet?

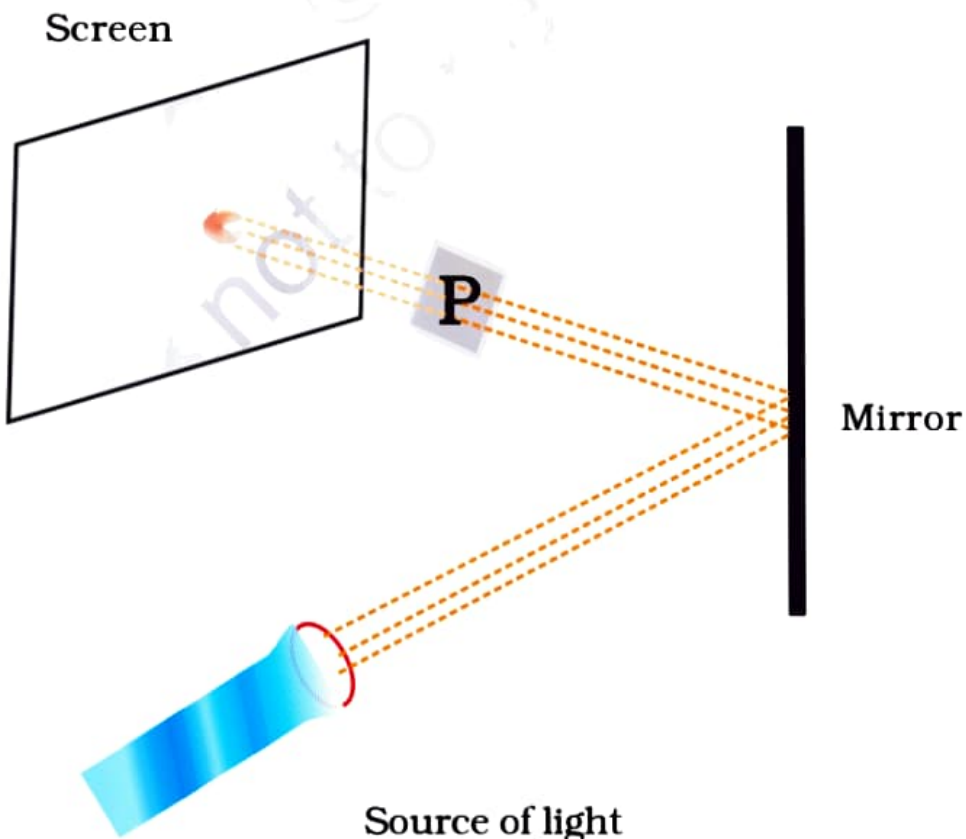


Fig. 11.6