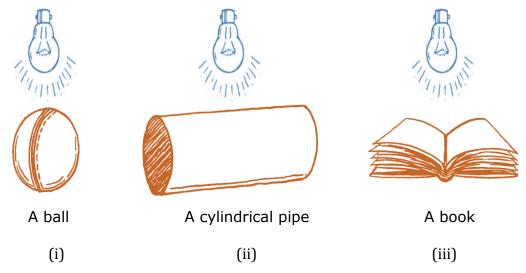
# (Chapter – 15) (Visualising Solid Shapes) (Class – VII)

## Exercise 15.4

### **Question 1:**

A bulb is kept burning just right above the following solids. Name the shape of the shadows obtained in each case. Attempt to give a rough sketch of the shadow. (You may try to experiment first and then answer these questions).



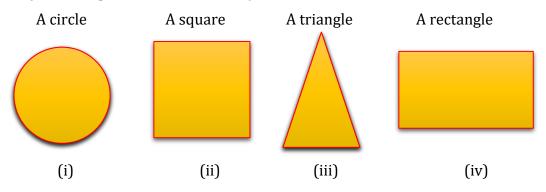
#### **Answer 1:**

S.No.	Object	Shadow	Shape's name
(i)	A ball		Circle
(ii)	A cylindrical pipe		Line
(iii)	A book		Rectangle

# (Chapter – 15) (Visualising Solid Shapes) (Class – VII)

## **Question 2:**

Here are the shadows of some 3-D objects, when seen under the lamp of the overhead projector. Identify the solid (s) that match each shadow. (There may be multiple answers for these!)



### **Answer 2:**

S. No.	Shadow	Shape's Name	3-D objects
(i)		Circle	Chapatti, Football, Disc, Plate etc.
(ii)		Square	Die, Square paper sheet, cubical magic box, Chalk box etc.
(iii)		Triangle	Ice-cream cone, Birthday cap, etc.
(iv)		Rectangle	Geometry box, Book, Table etc.

## (Chapter – 15) (Visualising Solid Shapes) (Class – VII)

## **Question 3:**

Examine if the following are true statements:

- (i) The cube can cast a shadow in the shape of a rectangle.
- (ii) The cube can cast a shadow in the shape of a hexagon.

### **Answer 3:**

- (i) True
- (ii) False