



# PHYSICS

## BOOKS - NCERT EXEMPLAR

### LIGHT

#### Multiple Choice Questions

1. Boojho and Paheli were given one mirror each by their teacher. Boojho found his image to be erect and of the same size whereas

Paheli found her image erect and smaller in size. This means that the mirrors of Boojho and Paheli are, respectively

- A. plane mirror and concave mirror.
- B. concave mirror and convex mirror.
- C. plane mirror and convex mirror
- D. convex mirror and plane mirror.

**Answer: C**



**Watch Video Solution**

2. Which of the following can be used to form a real image?

A. Concave mirror only

B. Plane mirror only

C. Convex mirror only

D. Both concave and convex mirrors.

**Answer: A**



**Watch Video Solution**

3. If an object is placed at a distance of 0.5 m in front of a plane mirror, the distance between the object and the image formed by the mirror will be:

A. 2m

B. 1m

C. 0.5 m

D. 0.25 m

**Answer: B**



Watch Video Solution

4. You are provided with a concave mirror, a convex mirror, a concave lens and a convex lens. To obtain an enlarged image of an object you can use either

- A. concave mirror or convex mirror
- B. concave mirror or convex lens.
- C. concave mirror or concave lens.
- D. concave lens or convex lens.

**Answer: B**



**Watch Video Solution**

5. A rainbow can be seen in the sky

A. when the sun is in front of you

B. when the sun is behind you.

C. when the sun is overhead

D. only at the time of sun rise

**Answer: B**



Watch Video Solution

6. You are provided with a convex mirror, a concave mirror, a convex lens and a concave lens. You can get an inverted image from

- A. both concave lens and convex lens.
- B. both concave mirror and convex mirror.
- C. both concave mirror and convex lens
- D. both convex mirror and concave lens.

**Answer: C**



[View Text Solution](#)

7. An image formed by a lens is erect. Such an image could be formed by a

A. convex lens provided the image is smaller than object.

B. concave lens provided the image is smaller than object.

C. concave lens provided the image is larger than object



D. concave lens provided the image is of  
the same size

**Answer: B**



**Watch Video Solution**

## Very Short Answer Questions Fill In The Blanks

1. The outer surface of a steel spoon acts as a  
\_\_\_\_\_ mirror

A. Convex

B. Concave

C. Plane

D. None of the above

**Answer: A**



**Watch Video Solution**

2. The inner surface of a steel spoon acts as a  
\_\_\_\_\_ mirror



 [Watch Video Solution](#)

3. The outer shining surface of a round bottom steel bowl acts as a \_\_\_\_\_ mirror.



[Watch Video Solution](#)

4. The inner surface of the reflector of a torch acts as a \_\_\_\_\_ mirror.



[Watch Video Solution](#)

## Very Short Answer Questions True Or False

1. State whether true or false: A concave lens can be used to produce an enlarged and erect image.



[Watch Video Solution](#)

2. State whether true or false: A convex lens always produces a real image



[Watch Video Solution](#)

3. State whether true or false: The sides of an object and its image formed by a concave mirror are always interchanged.



[Watch Video Solution](#)

4. State whether true or false: An object can be seen only if it emits light.



[Watch Video Solution](#)

1. What type of mirror is used as a side mirror in a scooter? Why is this type of mirror chosen?



[Watch Video Solution](#)

2. Boojho made light from a laser torch to fall on a prism. Will he be able to observe a band of seven colours? Explain with a reason.



[Watch Video Solution](#)

3. The side mirror of a scooter got broken. The mechanic replaced it with a plane mirror. Mention any inconvenience that the driver of the scooter will face while using it?



[Watch Video Solution](#)

4. The concave reflecting surface of a torch got rusted. What effect would this have on the beam of light from the torch?



[Watch Video Solution](#)

5. The concave reflecting surface of a torch got rusted. What effect would this have on the beam of light from the torch?



**Watch Video Solution**

6. Two different type of lenses are placed on a sheet of newspaper. How will you identify them without touching?



**Watch Video Solution**



7. A shopkeeper wanted to fix a mirror which will give a maximum view of his shop. What type of mirror should he use? Give reason.



[Watch Video Solution](#)

8. The distance between an object and a convex lens is changing. It is noticed that the size of the image formed on a screen is decreasing. Is the object moving in a direction towards the lens or away from it?





[Watch Video Solution](#)

## Long Answer Questions

1. Suppose we wish to obtain the real image of a distant tree. Explain two possible ways in which we can do it.



[Watch Video Solution](#)

2. It was observed that when the distance between an object and a lens decreases, the

size of the image increases. What is the nature of this lens? If you keep on decreasing the distance between the object and the lens, will you still be able to obtain the image on the screen? Explain



**Watch Video Solution**

3. You are given three mirrors of different types. How will you identify each one of them?



**Watch Video Solution**

