



The laws of reflection hold good for which of the following?

The laws of reflection hold good for _____?

- A. Plane mirror only
- B. Concave mirror only
- C. Convex mirror only
- D. All mirrors irrespective of their shape

Show Answer...

Correct Answer: All mirrors irrespective of their shape

The Law Of Reflection Holds Good For

The laws of reflection hold for light waves. This means that the angle of incidence is equal to the angle of reflection and the incident ray, reflected ray, and normal to the surface at the point of incidence all lie in the same plane. These laws apply to **all types of mirrors, regardless of their shape, including plane mirrors, concave mirrors, and convex mirrors.**

For example, when light strikes a flat mirror, the angle of incidence is equal to the angle of reflection and the light is reflected back in the same direction as it came. Similarly, when light strikes a curved mirror, the angle of incidence is still equal to the angle of reflection and the light is reflected back in a different direction. This principle is used in the design and construction of concave and convex mirrors in telescopes, cameras, and other optical devices.

Another example is that of a mirror used in a periscope, where the light is reflected by two mirrors at 90 degrees to each other to produce an image that is not directly visible from the observer's position. Here also the laws of reflection holds good for both the mirrors, irrespective of their shape, which are used in the periscope.

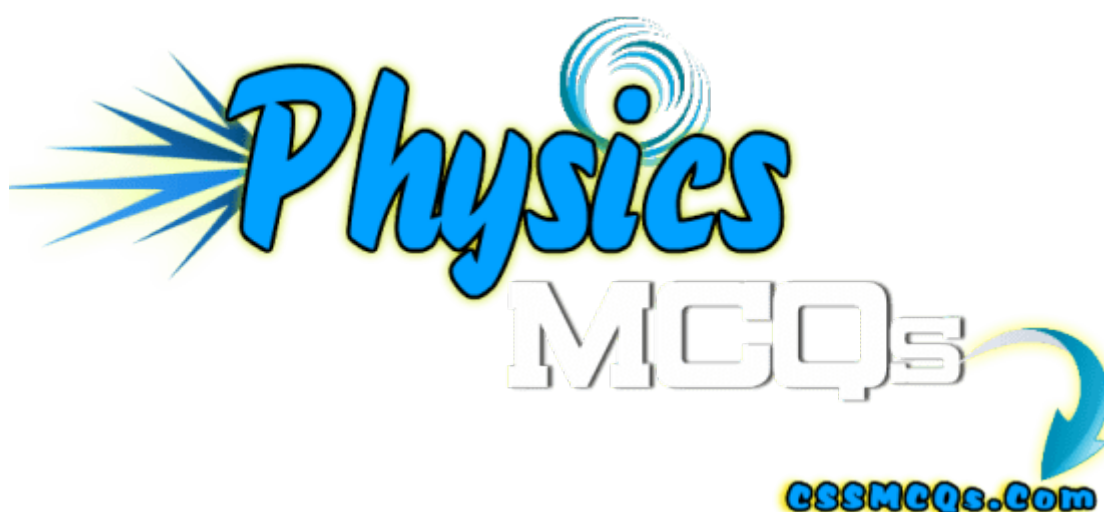
The laws of reflection state that when light or any other type of wave encounters a reflecting surface, the angle of incidence is equal to the angle of reflection. Additionally, the incident ray, reflected ray, and the normal to the reflecting surface all lie in the same plane. These laws of reflection apply to **all types of**

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reflecting surfaces, regardless of whether they are plane or curved. These laws are fundamental principles that are used in various fields such as physics, optics, and engineering. Understanding these laws can help in designing and building mirrors, lenses, and other optical devices.

In summary, the laws of reflection are fundamental principles that apply to all types of mirrors, regardless of their shape. Understanding these laws can help in designing and building mirrors, lenses, and other optical devices. So, the law of reflection holds good for all kinds of mirrors, and therefore D option is the right answer.

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