

Date.

27.1.2024

Class - VII
Subject - Science
Lesson - Light

Q Give reasons

1. The moon is not a luminous object.

Ans Moon does not emit its own light and therefore is a non luminous object. Moon is visible only when it reflects light from the sun.

2. The still surface of water forms a clear image.

Ans The still surface of water forms a clear image because it performs like a flat mirror creating clear and sharp images due to reflection and refraction of light on water.

3. Images are not formed on the surface of rocks.

Ans Images are not formed on the surface of rocks because when light rays fall on a rough surface they get scattered in different directions. This diffuses the reflected light.

4. A plane mirror always forms virtual images.

Ans A plane mirror always forms virtual images because the image is not formed by actual rays of light. The image is formed by the reflected rays extended backwards.

That is why the image formed by a plane mirror cannot be captured on a screen.

5. The distance of an object behind a car cannot be judged by just looking at the side mirror.

Ans. The distance of an object behind a car cannot be judged by just looking at the side mirror because a convex mirror is used as a side mirror in a car. The image formed on the convex mirror is upright, smaller than the object and covers a wide area. The object appears farther than it actually is.

6. On an ambulance, the word AMBULANCE is written in inverted form as ENALUBMA.

Ans. On an ambulance, the word AMBULANCE is written in inverted form as ENALUBMA because the other drivers ahead of it can see the word the right way when they look in their rear-view mirrors.