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**Chapter 15**

**Light**

**1. What is light?**

Ans. It is a natural agency which makes things visible.

**2. What do you mean by reflection of light?**

Ans. The changing of direction of a light when falls on a surface is known as reflection of light.

**3. When an image is called erect?**

Ans. If the image formed appears right-side up (or inverted) then the image is called erect.

**4. How many types of curved mirrors are known? Name them.**

Ans. Two

i) Concave Mirror

ii) Convex mirror

**5. How can we differentiate between concave and convex mirror?**

Ans. In concave mirror the curved surface is expanding outward, while in convex mirror the curved surface is expanding inward.

**6. What is the scientific name of concave mirror?**

Ans. Converging Mirror

**7. What is the scientific name of convex mirror?**

Ans. Diverging Mirror

**8. What is a real image?**

Ans. An image formed on a screen is referred as real image.

**9. What is a virtual image?**

Ans. The image which could not be obtained on a screen is referred as virtual image.

**10. Mention for what purposes concave mirrors can be used?**

Ans.

1. Used by doctors for examine eyes, ears, nose and throat.
2. Used by dentists to see an enlarged image of the teeth.
3. Used in reflectors of torches and headlights of motor vehicles.

**11. Mention some uses of convex mirrors.**

Ans.

1. Used as rear view mirrors in motor vehicles.
2. They are used in sunglasses.
3. They are also used in telescopes.

**12. How can we differentiate between convex lens and concave lens?**

Ans. Those lens which are thicker in the middle than the edges are convex lens, while those which are thinner in the middle than at the edges are concave lens.

**13. Why convex lens is called converging lens?**

Ans. Because it bends the light inwards falling on it (or converges).

**14. Why concave lens is called diverging lens?**

Ans. Because it bends the light outwards falling on it (or diverges).

**15. What happens when a white light is passed through a prism?**

Ans. Prism splits them into seven distinct colors.