Board – CBSE **Class – 8** **Topic – Light**

SUBJECTIVE ANSWER TYPE QUESTIONS

1. What is a luminous object?
2. Define angle of incidence.
3. Define angle of reflection.
4. What is meant by normal to the surface?
5. Can a real image be obtained on a screen?
6. Is a virtual image inverted?
7. An incident ray makes an angle of 30° with the mirror. What is the angle of incidence?
8. An incident ray makes an angle of 20° with the normal. What is the angle of reflection?
9. Who had invented the Braille system for visually impaired people?
10. Who controls the amount of light entering the eye?
11. What is the blind spot? Where is the located?
12. Which mirror is used in solar cookers?
13. When is a person unable to see?
14. How is a rainbow formed?
15. Where in the eye will you find nerve fibres sensitive to light?
16. Will red light passing through a prism result in a spectrum?
17. Why does the eye lens become cloudy in the case of older people?
18. What is the reflection of light?
19. What is the angle of incidence and angle of reflection?
20. What type of image is formed by a plane mirror?
21. What type of reflection forms an image?
22. What is a kaleidoscope?
23. What is the persistence of vision?
24. What is a cataract?

ANSWER THE FOLLOWING IN BRIEF

1. What do you mean by reflection?
2. State the laws of reflection.
3. Write two uses of plane mirrors.
4. What is the power of accommodation?
5. What is a lateral inversion?
6. Define dispersion of light through a prism.
7. A light ray is an incident at 45° on a plane mirror then what is the angle between the incident ray and reflected ray?
8. Name the lens which diverges the light rays.

ANSWER THE FOLLOWING IN APPROPRIATE DETAIL

1. With the help of diagrams, explain the difference between regular and irregular reflection.
2. What do you mean by a spectrum? Why is a spectrum formed by a prism and not by a glass slab?
3. Draw a labelled diagram to show the working of a kaleidoscope. What are the uses of a kaleidoscope?
4. What do you mean by the reflection of light? State the laws of reflection of light. With the help of an experiment prove the laws of reflection in the case of a plane mirror.
5. What are the properties of the image formed by a plane mirror? Explain the phenomenon of lateral inversion with the help of a diagram.
6. With the help of a labelled diagram, show the essential parts of the human eye. How do we see objects? Briefly explain the common defect of the eye.
7. Draw a labelled diagram of the human eye and explain its various parts.
8. Draw the ray diagram for the formation of an image of a distant object by a telescope.