

Board – ICSE

Class – 7<sup>th</sup>

Topic – light energy

Q1. Give the characteristics of image formed by a plane mirror.

Q2. Define

Angle of reflection

Reflecting surface

Q3. Define:

Incident ray

Point of incidence

Reflected ray Normal at point of incidence

Angle of incidence

Q4. Give four uses of plane mirrors.

Q5. After striking the mirror, the ray of light is reflected in another direction. What do we call the ray of light that strikes the mirror and another ray that comes back from the mirror?

Q6. Why are plane mirrors used for self grooming?

Q7. What happens when light falls on a mirror? What is this phenomenon called?

Q8. Why is it not possible to obtain a virtual image on the screen?

Q9. A text is sometimes deliberately displayed in its mirror image. Can you site one such example? Why is this done?

Q10. If an object is placed at a distance of 10 cm in front of a plane mirror, how far would it be from its image?

Q11. Draw a ray diagram showing the formation of image of a point object by a plane mirror.

# Physics Worksheet

Q12. Draw a diagram showing the reflection of a light ray from a plane mirror. Label on it the incident ray, the reflected ray, the normal, the angle of incidence  $i$  and the angle of reflection  $r$ .

Q13. Describe an experiment to verify the laws of reflection of light.

Q14. The angle between the incident ray and the ray reflected from the plane mirror is  $70^\circ$ . The angle of incidence will be?

Q15. A man standing in front of a plane mirror finds his image to be at a distance of 6 meter from himself. The distance of man from the mirror is