

## WORKSHEET CLASS 8 LIGHT

**Q1.** Suppose you are in a dark room. Can you see objects in the room? Can you see objects outside the room? Explain.

**Q2.** Differentiate between regular and diffused reflection. Does diffused reflection mean the failure of the laws of reflection?

**Q3:** Mention against each of the following whether regular or diffused reflection will take place when a beam of light strikes. Justify your answer in each case.

- (a) Polished wooden table
- (b) Chalk powder
- (c) Cardboard surface
- (d) Marble floor with water spread over it
- (e) Mirror
- (f) Piece of paper

**Q4:** State the laws of reflection.

**Q5:** Describe an activity to show that the incident ray, the reflected ray and the normal at the point of incidence lie in the same plane

**Q6:** Fill in the blanks in the following:

- (a) A person 1 m in front of a plane mirror seems to be \_\_\_\_\_ from his image.
- (b) If you touch your \_\_\_\_\_ ear with right hand in front of a plane mirror it will be seen in the mirror that your right ear is touched with \_\_\_\_\_.
- (c) The size of the pupil becomes \_\_\_\_\_ when you see in dim light.
- (d) Night birds have \_\_\_\_\_ cones than rods in their eyes.

**Choose the correct option in Questions 7 – 8**

**Q7. Angle of incidence is equal to the angle of reflection**

- (a) Always
- (b) Sometimes
- (c) Under special conditions
- (d) Never

**Q8. Image formed by a plane mirror is**

- (a) virtual, behind the mirror and enlarged
- (b) virtual, behind the mirror and of the same size as the object
- (c) real at the surface of the mirror and enlarged
- (d) real, behind the mirror and of the same size as the object.

Q 9. What is the angle of incidence of a ray if the reflected ray is at an angle of  $90^\circ$  to the incident ray?

Q10. How many images of a candle will be formed if it is placed between two parallel plane mirrors separated by 40 cm?

- Q11. (a) Find out the position of the image of an object situated at A in the plane mirror.  
(b) Can Paheli at B see this image?  
(c) Can Boojho at C see this image?  
(d) When Paheli moves from B to C, where does the image of A move?

