

ANSWERS TO EXERCISE 6 OF MK PAGE 143-144 on 25th/04/2020.

1.The sun,glow worms, fire flies,stars

2.Light travels through light rays in a straight line.

3.Light enable us to see/Sunlight enable plants to make their own food/Sunlight is used by photographers to take photographs/It enables our skin to manufacture vitamin D.

4.Opaque materials don't allow light to pass through them while transparent materials allow light to pass through them easily.

5.Little light pass through translucent materials.

6.Solar eclipse

7.Smooth surface.

8.P is the incident ray.

9.SOLUTION

The Angle of Incidence =The angle of Reflection.

$r + 60 \text{ degrees} = 90 \text{ degree}$

$r + 60 - 60 = 90 - 60 \text{ degrees}$

$r + 0 = 30 \text{ degrees}$

$r = 30 \text{ degrees}$

Therefore the angle of reflection(r is 30°)

10.The images are virtual ie do not form on the screen./Images have the same size as the object distance from the mirror./The images are laterally inverted ie turned sideways./The images are upright or erect.

11.a-Convex lens, b- Concave lens

12.i—convergent beam, ii—Divergent beam.

13.The images formed on the retina of the eye and the film of a camera are; inverted/,real /diminished.

14.The rainbow.

15.The film.

16.a Short sightedness/miopya

b..Long sightedness/hypermetropia.