



7. Angle of incidence is equal to the angle of reflection.

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

Answer: (a) Always

8. Image formed by a plane mirror is

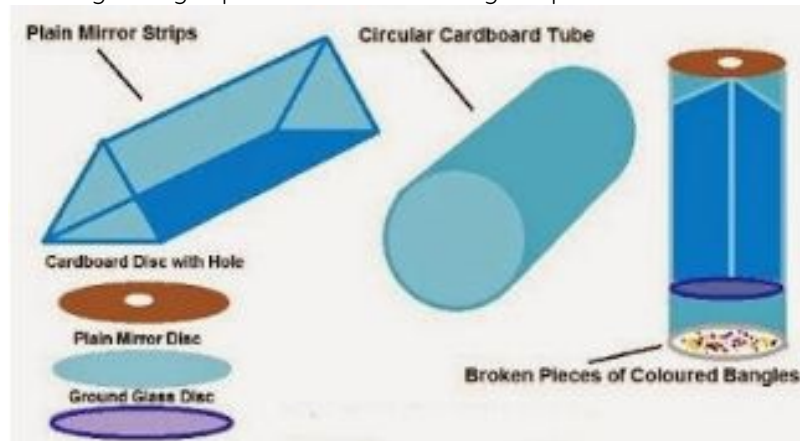
- (a) virtual, behind the mirror and enlarged.
- (b) virtual, behind the mirror and of the same size as the object.
- (c) real at the surface of the mirror and enlarged.
- (d) real, behind the mirror and of the same size as the object.

Answer: (b) virtual, behind the mirror and of the same size as the object.

9. Describe the construction of a kaleidoscope.

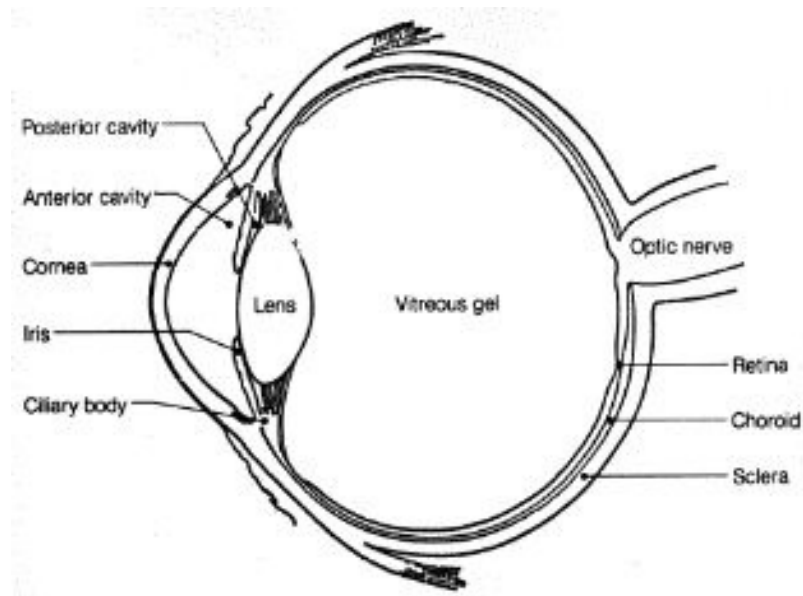
Answer:

Three rectangular mirror strips of dimensions 15cm x 4cm (l x b) are joined together to form a prism. This prism is fixed into a circular cardboard tube. The circular cardboard tube should be slightly longer than the prism. This circular tube is now closed at one end with a cardboard disc. This disc has a hole in it through which we can see. At the other end of the circular tube, a plane glass plate is fixed. It is important that this glass plate touches the prism mirrors. On this glass plate, several small and broken pieces of coloured glass are placed. This end is now closed by a round glass plate allowing enough space for the coloured glass pieces to move.



10. Draw a labelled sketch of the human eye.

Answer:



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11. Gurmit wanted to perform Activity 16.8 using a laser torch. Her teacher advised her not to do so. Can you explain the basis of the teacher's advice?

Answer:

Laser light is harmful for the human eyes, because its intensity is very high. It can cause damage to the retina and lead to blindness. Hence, it is advisable not to look at a laser beam directly.

12. Explain how you can take care of your eyes.

Answer:

We can take care of eyes by:

1. Visit an eye specialist regularly.
2. Avoid reading in dim light and very bright light.
3. Avoid direct exposure of sunlight to the eye.
4. Clean your eyes with cold water quickly if dust particles or small insects enter your eye. Do not rub your eyes.
5. Maintain a distance of at least 25 cm between the book and your eyes while reading.

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