

- 1. Assertion :** A pinhole camera produces an upside down image of object.
Reason : Light travels in a straight line.
- 2. Assertion :** A solar eclipse always occurs on a new moon day.
Reason : During a solar eclipse, the dark side of the moon faces the Earth.
- 3. Assertion :** The shadow formed is always a dark patch, irrespective of the colour of the object.
Reason : The opaque object blocks the light.
- 4. Assertion :** Never look directly at a solar eclipse.
Reason : When moon comes between the Sun and the Earth, solar eclipse occurs.
- 5. Assertion :** The dark part of a shadow that receives small amount light from the source is umbra.
Reason : Umbra is formed only by an extended source of light.
- 6. Assertion :** We cannot look through a book.
Reason : A book is a transparent object.
- 7. Assertion :** Thunder and lightning happen at the same time but lightning is seen a few seconds earlier than we hear the thunder.
Reason : Speed of light and sound is same.

8. Assertion : The moon shines brightly.

Reason : The moon is a luminous object.

9. Assertion : The colour of a shadow is always black or grey.

Reason : A shadow is the area where no light or a little light falls.

10. Assertion : A boy wearing coloured contact lens, grey in the left eye and green in the right eye, standing in front of a plane mirror observes the left eye green and the right eye as grey.

Reason : Lateral inversion makes the left side appears right and right side appears left.