

Light, Shadows And Reflections

I) Fill in the blanks :

1. _____ helps us to see objects.
2. Objects that give out or emit light of their own are called _____.
3. _____ objects allow light to pass through them completely.
4. _____ objects do not allow the light to pass through it at all.
5. _____ objects allow the light to pass through them partially.
6. Light travels in a _____.
7. _____ are formed when an opaque object comes in the path of light.
8. _____ and _____ objects are essential for the formation of shadows on a screen.
9. A shadow cast by the heavenly bodies is called an _____.
10. Images formed by a pin –hole camera are _____.
11. We see _____ of the object in the mirror.

II) Answer in one or two words :

1. Give two examples of opaque objects.
2. Give two examples transparent objects
3. Give two examples of translucent objects.
4. Give two examples of luminous objects
5. Give two examples of non-luminous objects.

III) Choose the correct Answer :

1. [Mirror/glass] helps to change the direction of light that falls on it.
2. Images are [same / different] from the shadow.
3. Torch bulb is [luminous / non – luminous object]
4. [opaque/transparent] objects cast shadows.
5. Coloured objects form [coloured / dark] shadows.

IV) Answer the following questions :

1. How are shadows formed ?
2. What is meant by reflection of light ?
3. Explain with the help of an activity that light travels in a straight line.

V) Define :

1. Opaque objects
2. Shadows
3. Reflection of light

VI) Distinguish between

1. Transparent and translucent objects
2. Luminous and non luminous objects.

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Fill in the blanks:

1. All sources of light can be classified into two categories _____ and _____
2. Moon and planets do not emit light of their own, but they reflect the light of the _____ falling on them.
3. A non-luminous body can be made luminous by _____ it.
4. A source of light which is of the size of the head of a common pin is called _____ source of light.
5. A collection of a large number of rays of light is called a _____ of light.
6. The property of light by which it travels in a straight line is called - _____ propagation of light.
7. The image formed in pinhole camera is _____, _____, _____ in size.

Answer the following :

1. Two differences between a shadow and an image formed in pin-hole camera.
 2. How much time the light from the sun takes to reach the earth ?
 3. Define mirror.
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