

St. Andrews Scots Sr. Sec. School

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Session: 2023-2024 - Worksheet

Class: VIII

Subject: Science

Chapter: Light

Q.1. Define these terms:

- a) Myopia
- b) Angle of reflection
- c) Retina
- d) Diffused reflection
- e) Refraction

Q.2. Fill in the blanks:

- a) When the mirrors are inclined at 90° , we get _____ images.
- b) In bright light, the size of pupil _____.
- c) The space between the cornea and lens is filled with a liquid called _____.
- d) Braille system was invented by _____.
- e) Kaleidoscope is based on the concepts of _____.

Q.3. Answer in one word:

- a) Which element is used at the back of plane mirror?
- b) The distance between the object and its image formed by a plane mirror appears to be 18 cm. What is the distance between mirror and the object?
- c) Name a device which works on the principle of multiple reflection.
- d) What do we call the image that cannot be obtained on a screen?
- e) Name the scientist who studied that if a white light is passed through a prism, it splits into different colours.

Q.4. Multiple choice questions:

- a) We are able to see an object due to the presence of
 - (i) light (ii) dark (iii) refraction (iv) object
- b) The bouncing back of light into the same medium is called
 - (i) refraction (ii) reflection (iii) dispersion (iv) diffraction
- c) A mirror has _____ surface.

(i) rough (ii) polished (iii) dark (iv) all of these

d) Maximum part of light is reflected by

(i) opaque object (ii) translucent object (iii) transparent object (iv) all of these

e) Beam of light striking the reflecting surface is called

(i) incident ray (ii) reflected ray (iii) refracted ray (iv) normal ray

Q.5. Answer the following questions:

a) How is the vision of eye related to nutrition?

b) Why are tall mirrors placed in a small offices?

c) Will you see a spectrum if a ray of monochromatic light falls on a prism?

d) Why cannot you see your surroundings clearly as you enter a darkened cinema hall?

e) How is convex eye lens different from ordinary convex lens made up of glass?