

1) Why does it take some time to see the objects in a dim room when you enter the room from the bright sunlight outside?

It takes some time to see objects in a dim room when you enter the room from bright sunlight because it takes some time so that the pupil expands and allows more light to enter and help us to see things clearly.

2) Mention the function of

i) Iris - It controls the size of the pupil

ii) Eye lens - It converges light rays and forms an image on the retina

iii) Retina - An inverted image is formed on the retina. It is then converted into electric impulses and sent to the brain.

3) How exactly we can see the nearby objects and the far off objects clearly?

This is due to the ability of the eye lens to adjust its focal length with the help of ciliary muscles. When the ciliary muscles are ~~relaxed~~ relaxed, the lens becomes thin. To see the distant objects clearly when the eye lens becomes thicker. The ciliary muscles contract. The focal length decreases and then we are able to see nearby objects clearly.