

(1) Causes of Myopia

- Excessive curvature of eye lens
- elongation of eyeball

(ii) causes of hypermetropia

- focal length of eye lens becomes large
- eyeball becomes short

(a) Near Point

→ Near point is the closest distance from the eye which can be seen clearly by the eye.

→ The near point of a normal human eye is 25 cm.

Far point

→ Far point is the farthest distance from the eye that can be seen clearly by the eye.

→ The far point of a normal human eye is infinity.

(3) cataract is a condition in which crystalline lens of eye becomes milky and cloudy due to the growth of membrane over it. It can be treated by doing a surgery.

(4) The maximum variation in the power of eye lens for focusing near or far objects, clearly at retina is called the power of accommodation.