



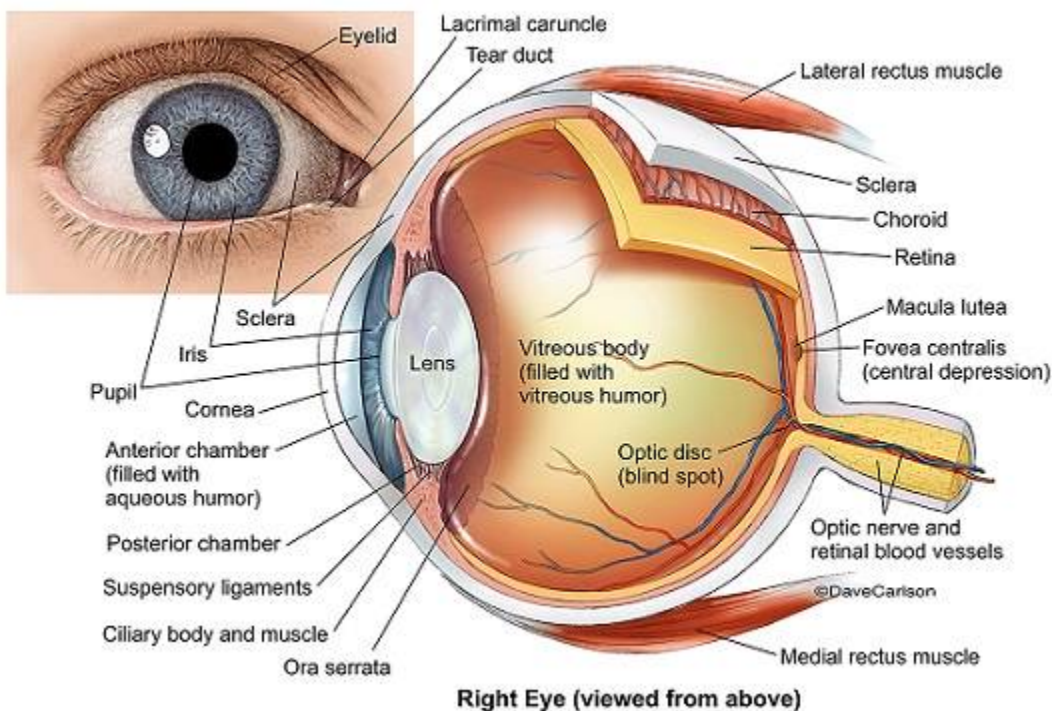
World Sight Day

Why in News?

World Sight Day is observed globally on the second Thursday of every October.

- This year, World Sight Day is being observed on 13th October to draw attention to the **issue of blindness and vision impairment** among people.

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Why do we Celebrate World Sight Day?

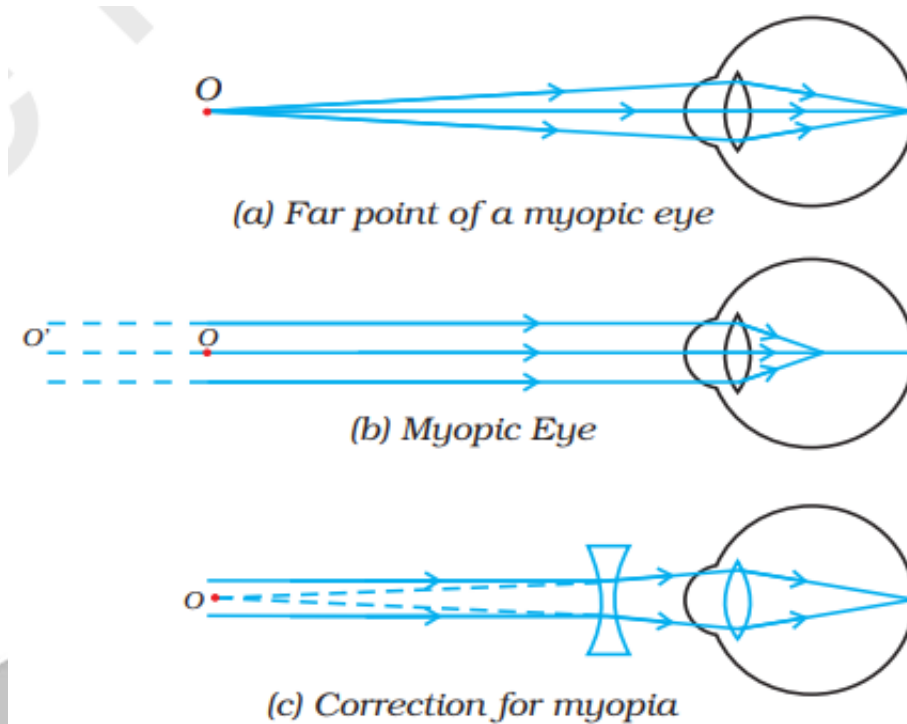
- **History:**
 - The day was **first observed by the SightFirst campaign** of the Lions Club International organisation in the year 2000.
 - Since then, it has been **integrated into the VISION 2020: The Right to Sight (V2020)** plan.
 - The V2020 plan which was launched in 1999 is coordinated by the International Agency for the Prevention of Blindness (IAPB) in cooperation with the [World Health Organization \(WHO\)](#).
- **Theme for 2022:** 'Love your eyes'
- **Significance:**
 - This day is significant because there are **more than a billion people across the globe who cannot see properly** as they do not have access to glasses. Out of them, one billion people are suffering with preventable vision impairment.

- Poor or lost eyesight leave long-lasting effects on every aspect of life, such as on daily personal activities, school & work, daily routine and interacting with the community.

What are the Different Defects of Vision?

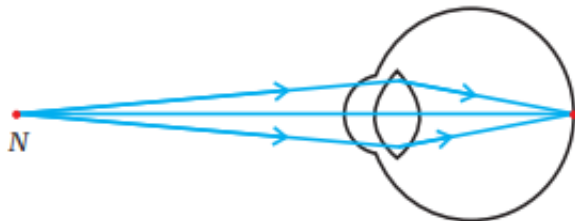
▪ Myopia or Near-Sightedness:

- In this condition, the **person can see the objects nearby but cannot see distant objects clearly.**
- Faraway objects appear blurry, and a person will not be comfortable seeing them.
- Myopia occurs when the shape of the eyes causes light rays to bend in the wrong direction, focusing images in front of the retina rather than on it.
- Myopic eye defect can be corrected by using concave lens.

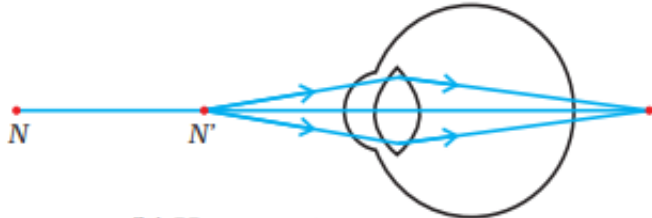


▪ Hypermetropia or Far-Sightedness:

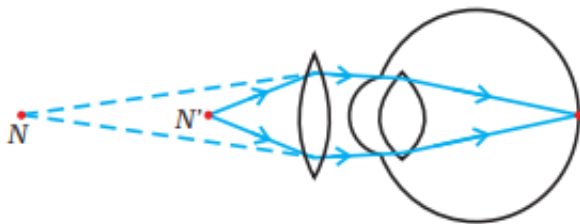
- Hypermetropia is commonly known as far-sightedness and convex lens is used to treat it.
- In this condition, the person can see objects at a distance but cannot see nearby objects clearly.
- Usually, the person with this disorder squints to see nearby objects.
- Hypermetropia is caused when the light rays from a closeby object are focused on a point behind the retina.



(a) Near point of a Hypermetropic eye



(b) Hypermetropic eye

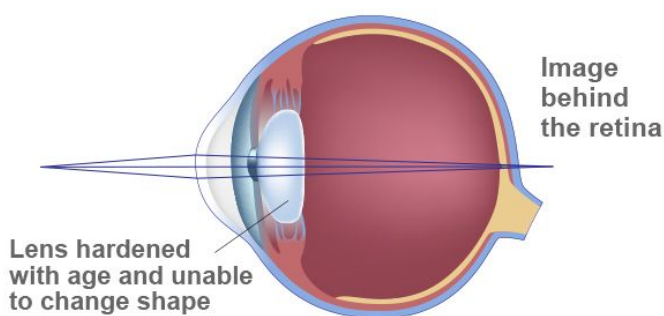


(c) Correction for Hypermetropic eye

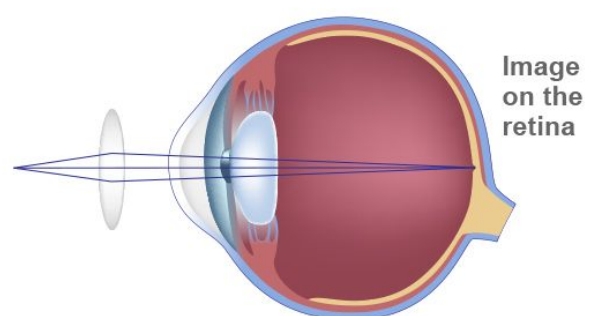
▪ **Presbyopia:**

- Presbyopia is the **gradual loss of the eyes' ability to focus on nearby objects.**
- The symptoms of presbyopia usually begin around the age of 40 and worsen until around 65.
- To correct this defect, a **person is prescribed bifocal lens** that has both types of lenses - convex and concave.

Presbyopia



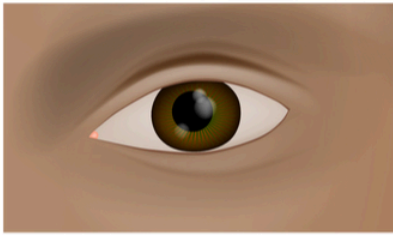
Presbyopia Corrected



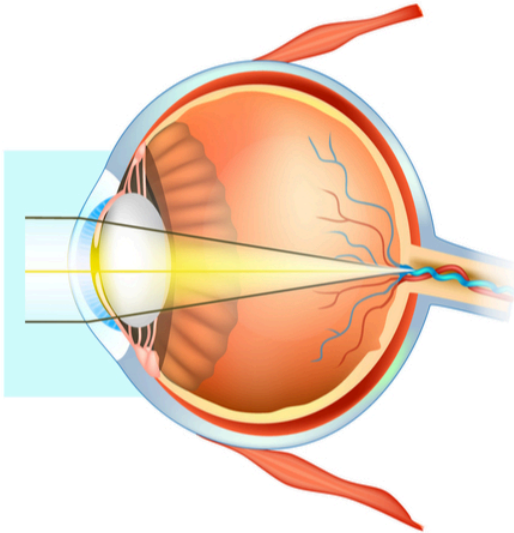
▪ **Cataract:**

- It is the medical condition in which the lens of the eye of a person becomes progressively cloudy resulting in blurred vision. It can be treated by Surgery.
- Cataract develops when the eye-lens of a person becomes cloudy (or even opaque) due to the formation of a membrane over it. Cataract decreases the vision of the eye gradually.

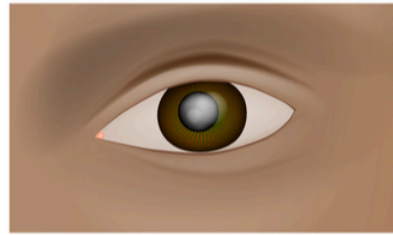
Normal Eye



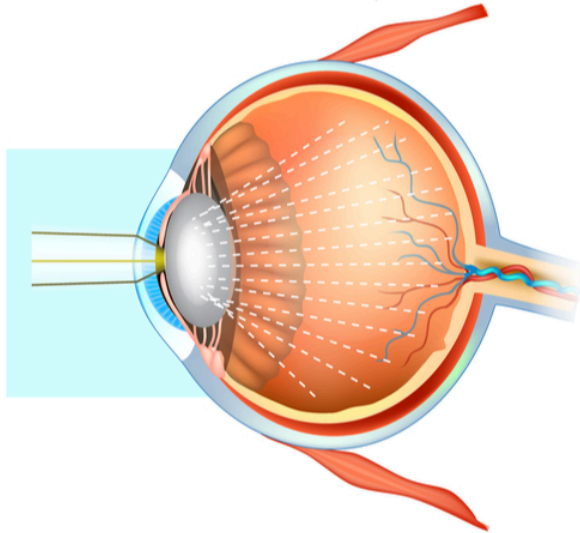
A healthy lens allows for all parts of the retina to receive the image



Cataract Eye



Clouding of the lens in the eye that affects vision. A cloudy lens scatters light, causing an image that's out of focus and hazy



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