

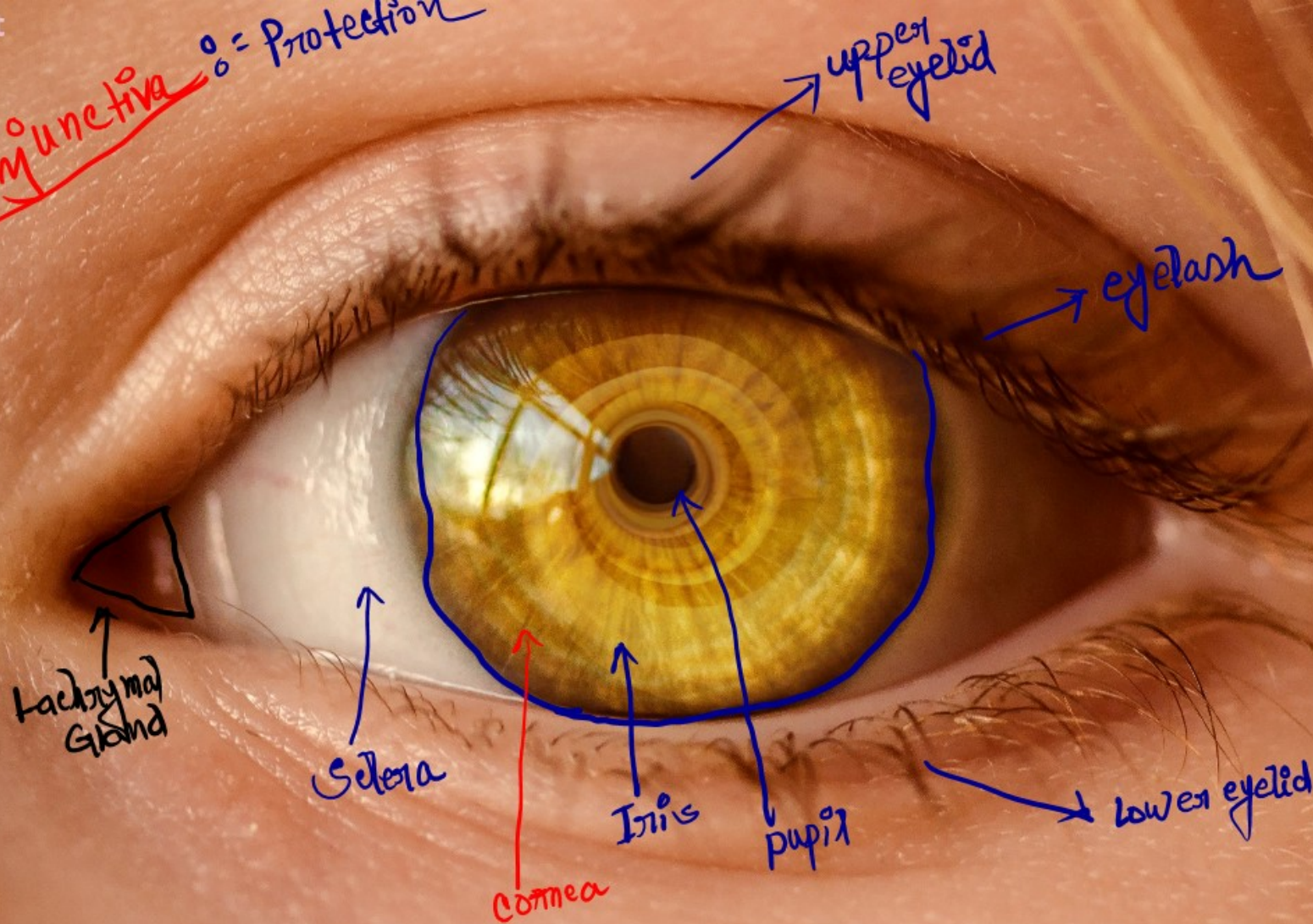
A close-up, artistic photograph of a human eye. The eye is looking directly at the camera, and its iris is a mix of green and brown. A reflection of a bright, possibly outdoor scene with a building and trees is visible in the pupil. The word "EYE" is superimposed in large, bold, pink letters across the center of the eye.

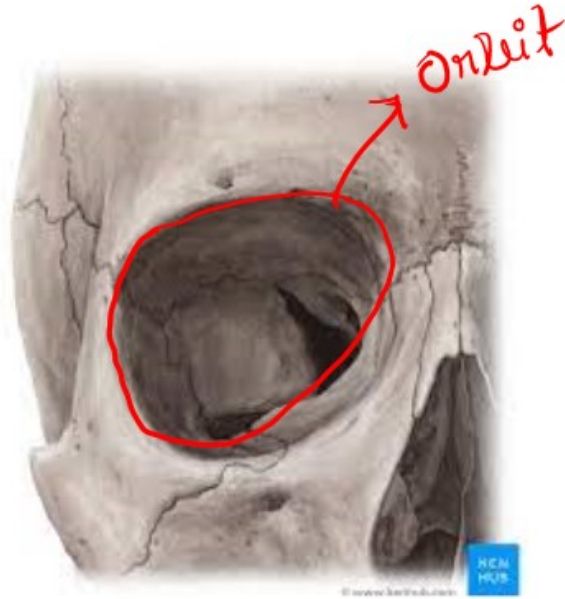
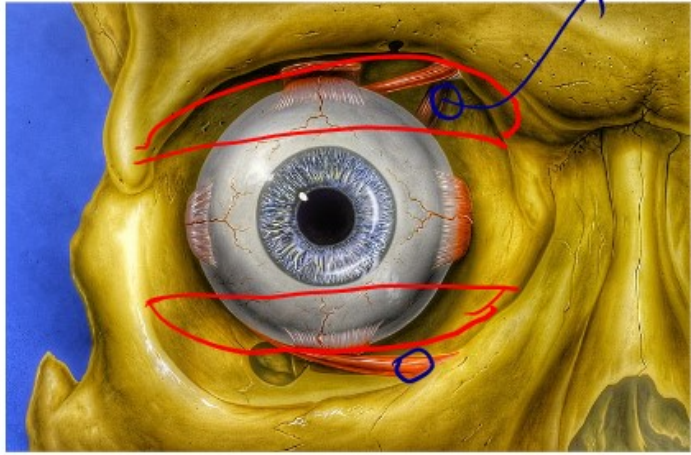
# EYE

( Neural Control & Coordination )



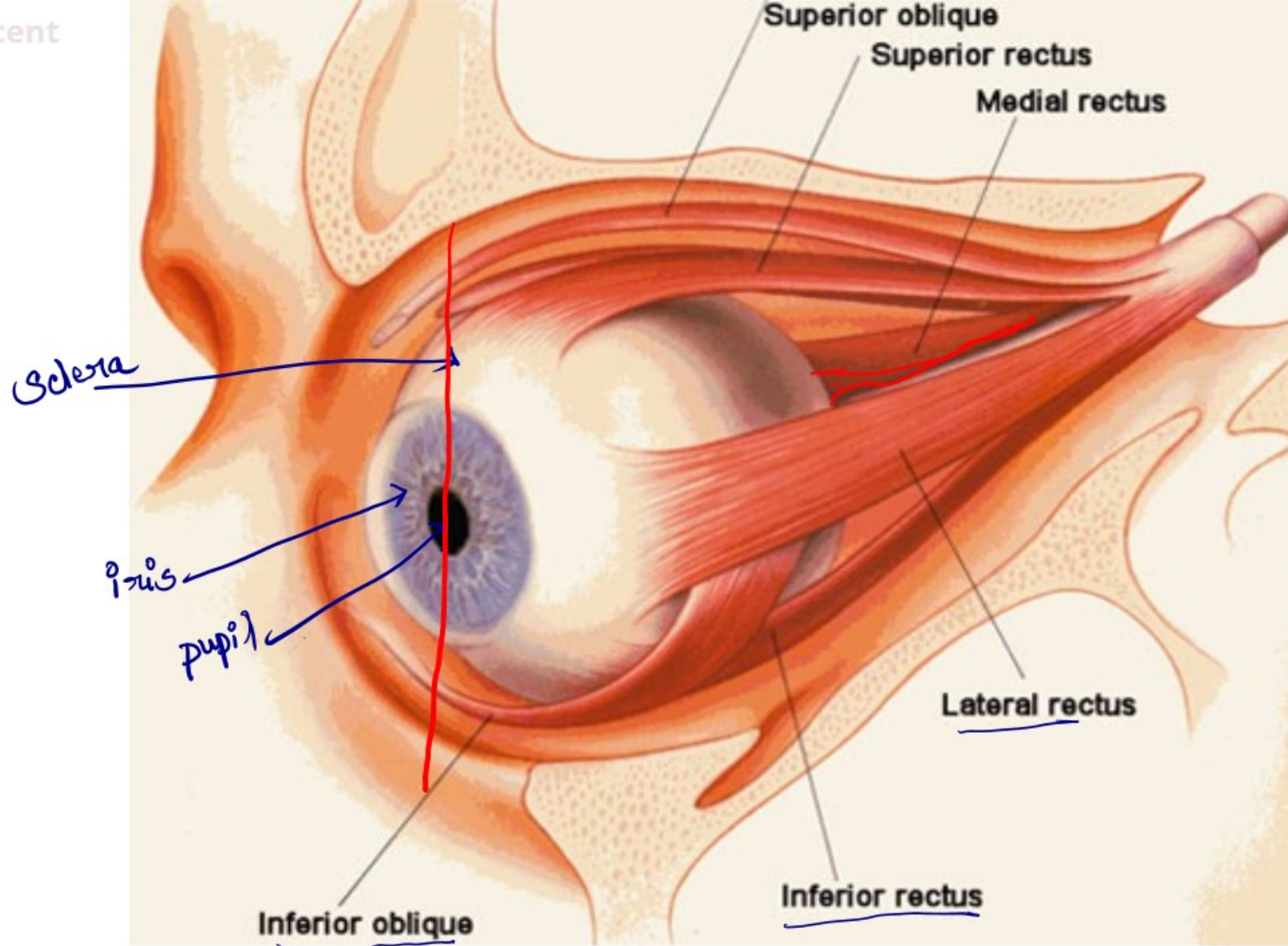
#conjunctiva % = Protection

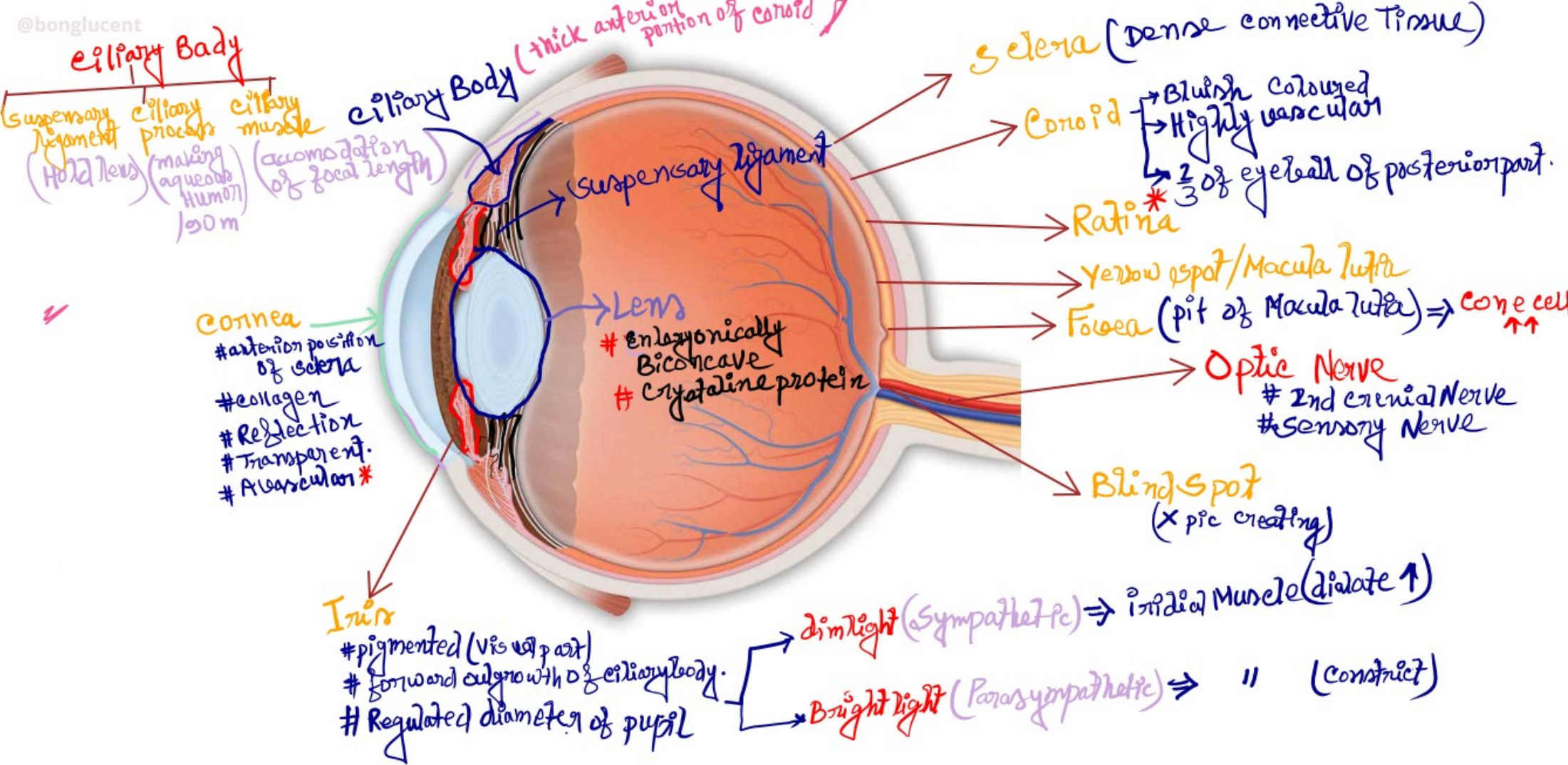


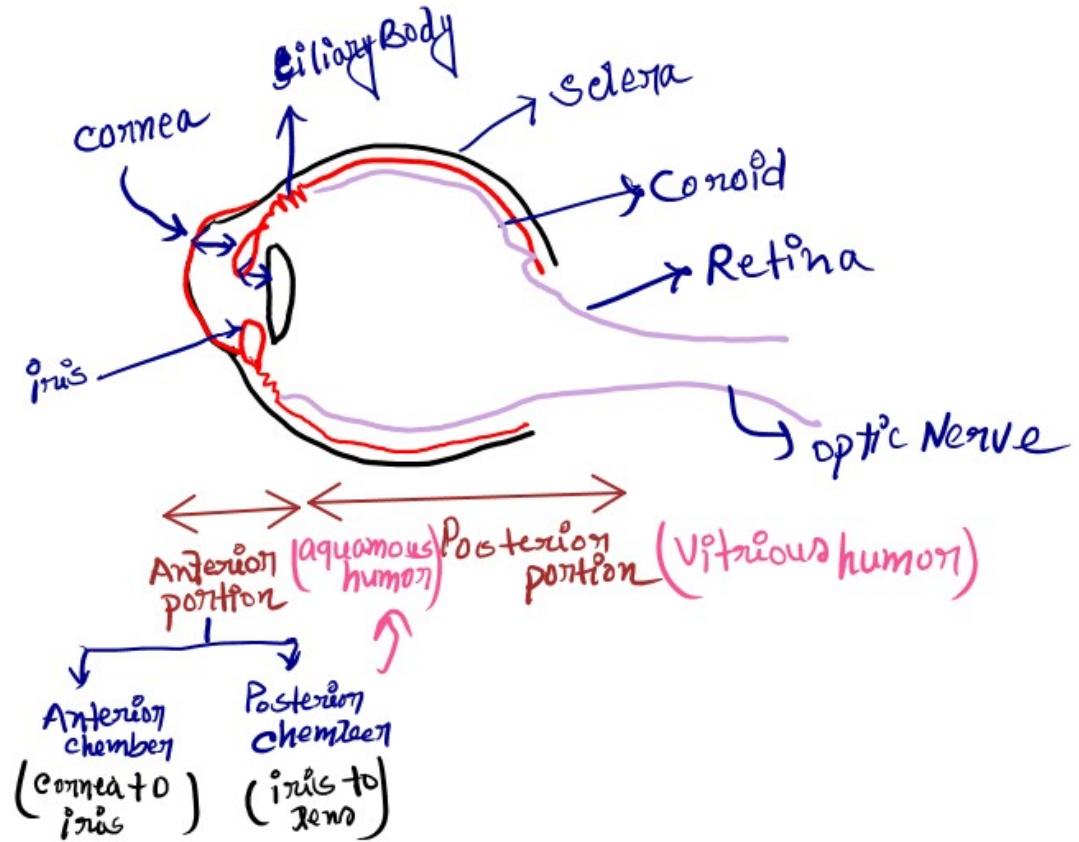
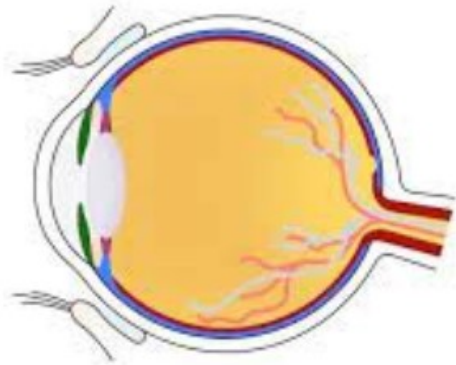


eyeball



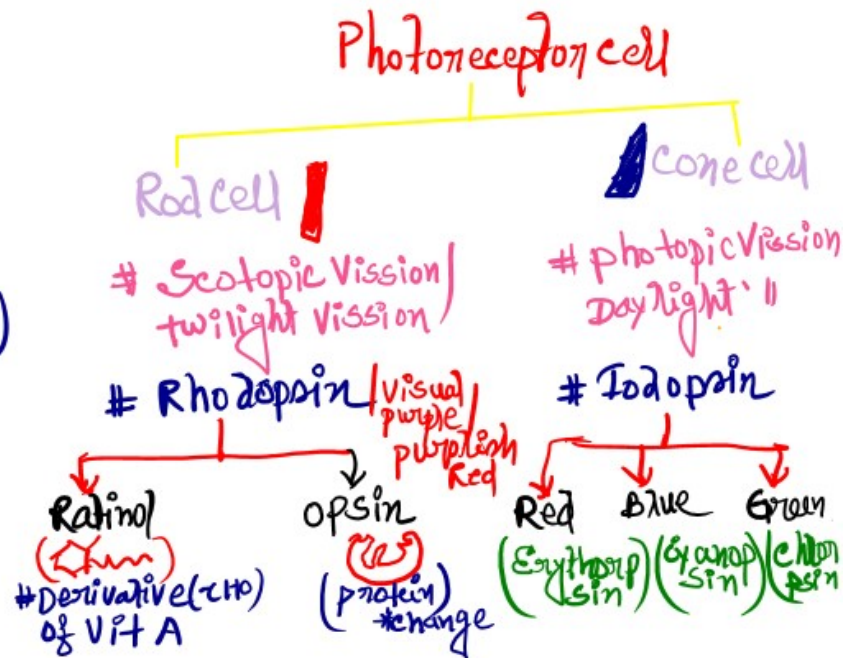
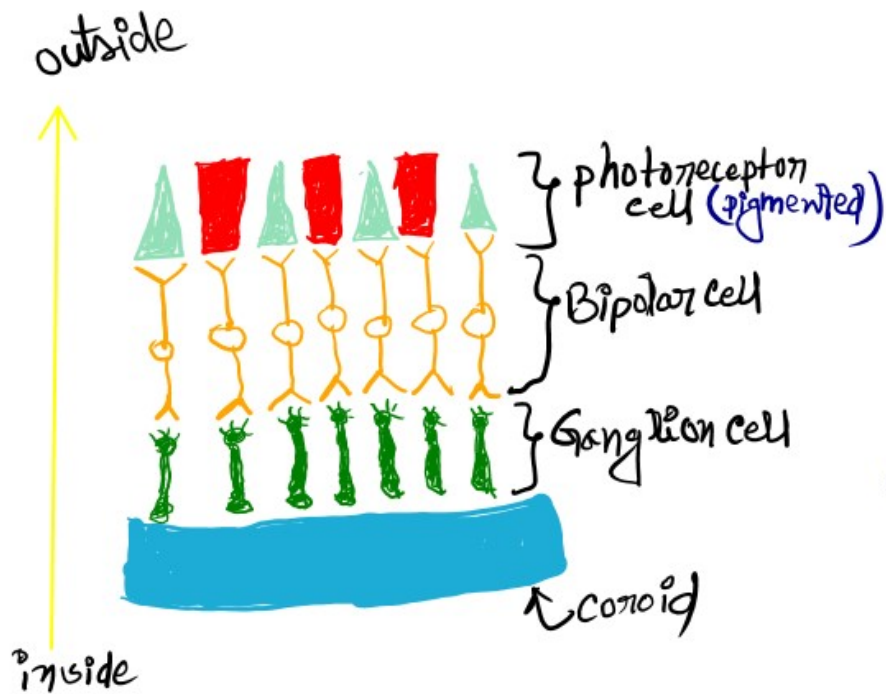
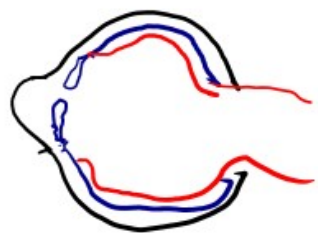




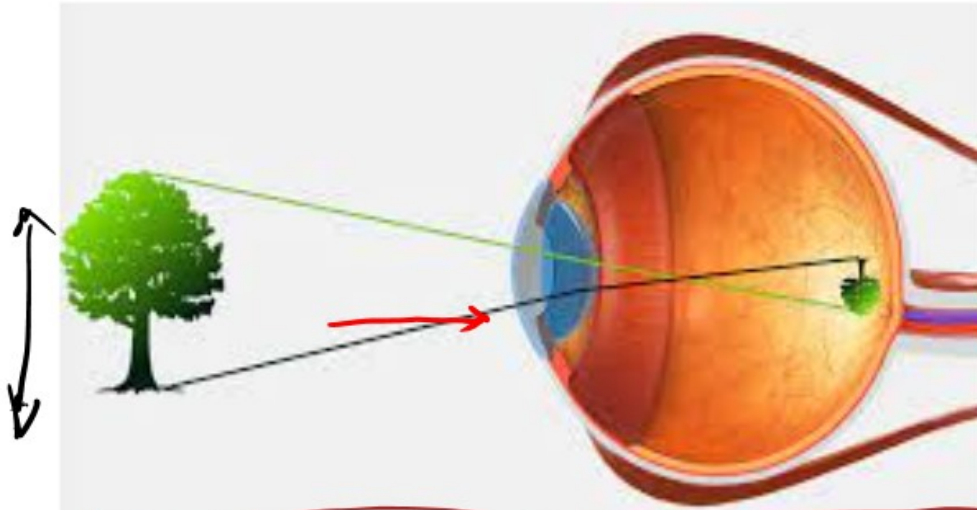




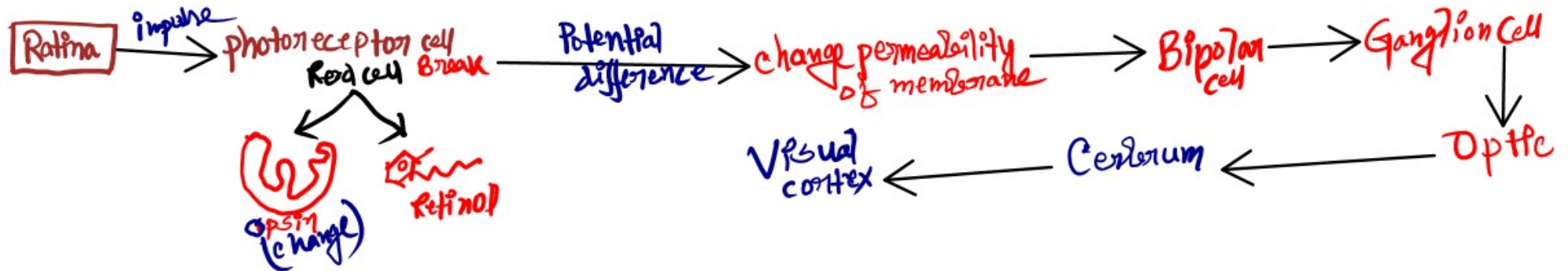
# Retina



# Mechanism of Vision



# Cornea → Iris → pupil → lens → Retina





# Some Vision Defects

Myopia	Hypermetropia	Astigmatism	Presbiopia/Hyperopia
Near-sightedness	Far-sightedness	Distorted vision at all distance	Loss of ability to focus up close
N ✓	N ✗	N ✗	(40-50y)
F ✗	F ✓	F ✗	
correction			
Concave lens / Diverging lens	Convex / converging lens	Cylindrical lens	Bifocal lens.
$f = \frac{1}{p} = -ve$	$f = \frac{1}{p} = +ve$		

# Cataract = clouding of eye's lens.

# Diabetic Retinopathy (DR) = Damaged of Blood vessel.

# AMD (Age-Related Macular Degeneration) =  
 ↳ effect on macula damaged central vision  
 ↓  
 daily work

# Glaucoma = Damage of Optic Nerve (fluid pressure)  
 ↳ open angle      closed angle  
 \* slowly symptom      \* suddenly symptom  
 # 'Sneak thief of sight' (long period)      \* painful

children

# Amblyopia

\* Lazy Vision \*

\* eye & Brain not working

# Strabismus

# imbalance in the positioning of two eyes.

↳ lack coordination b/w two eyes

**THANK YOU**