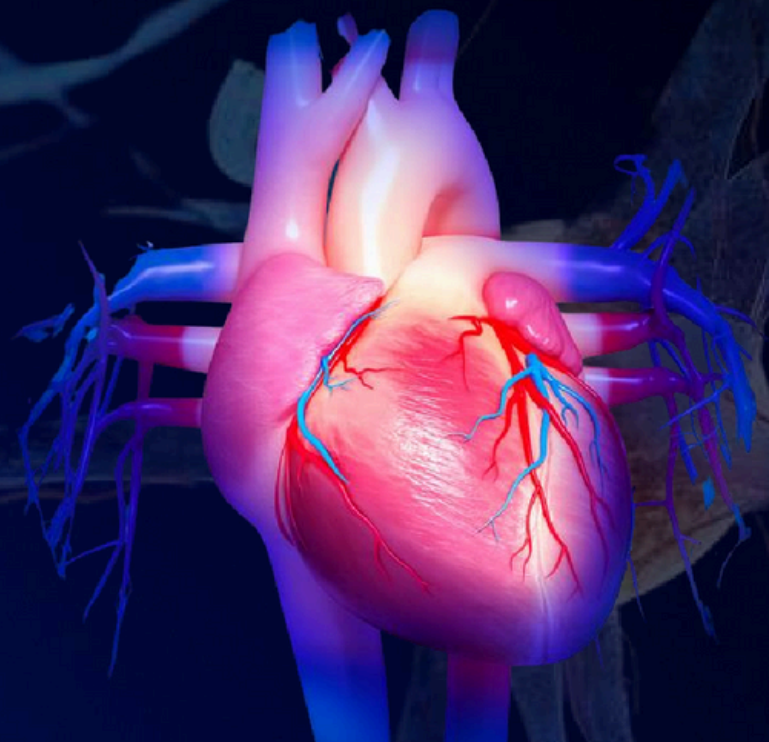


ALL IMPORTANT DIAGRAMS IN ONE SHOT

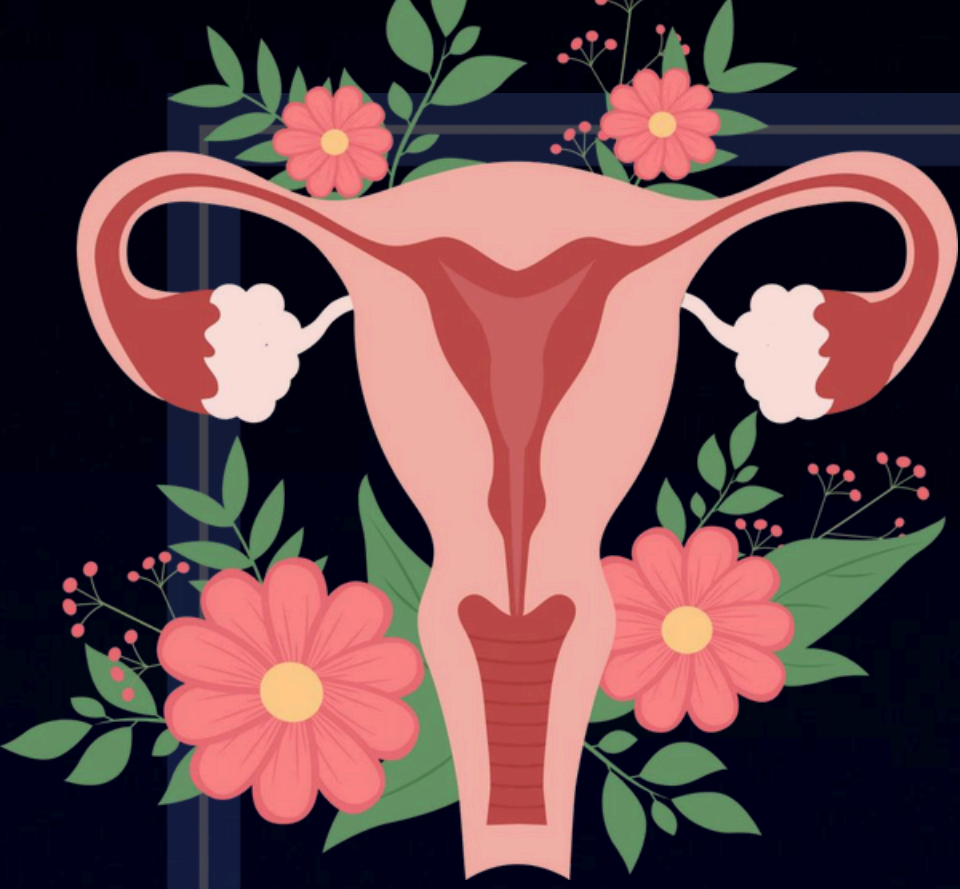
CLASS-10TH



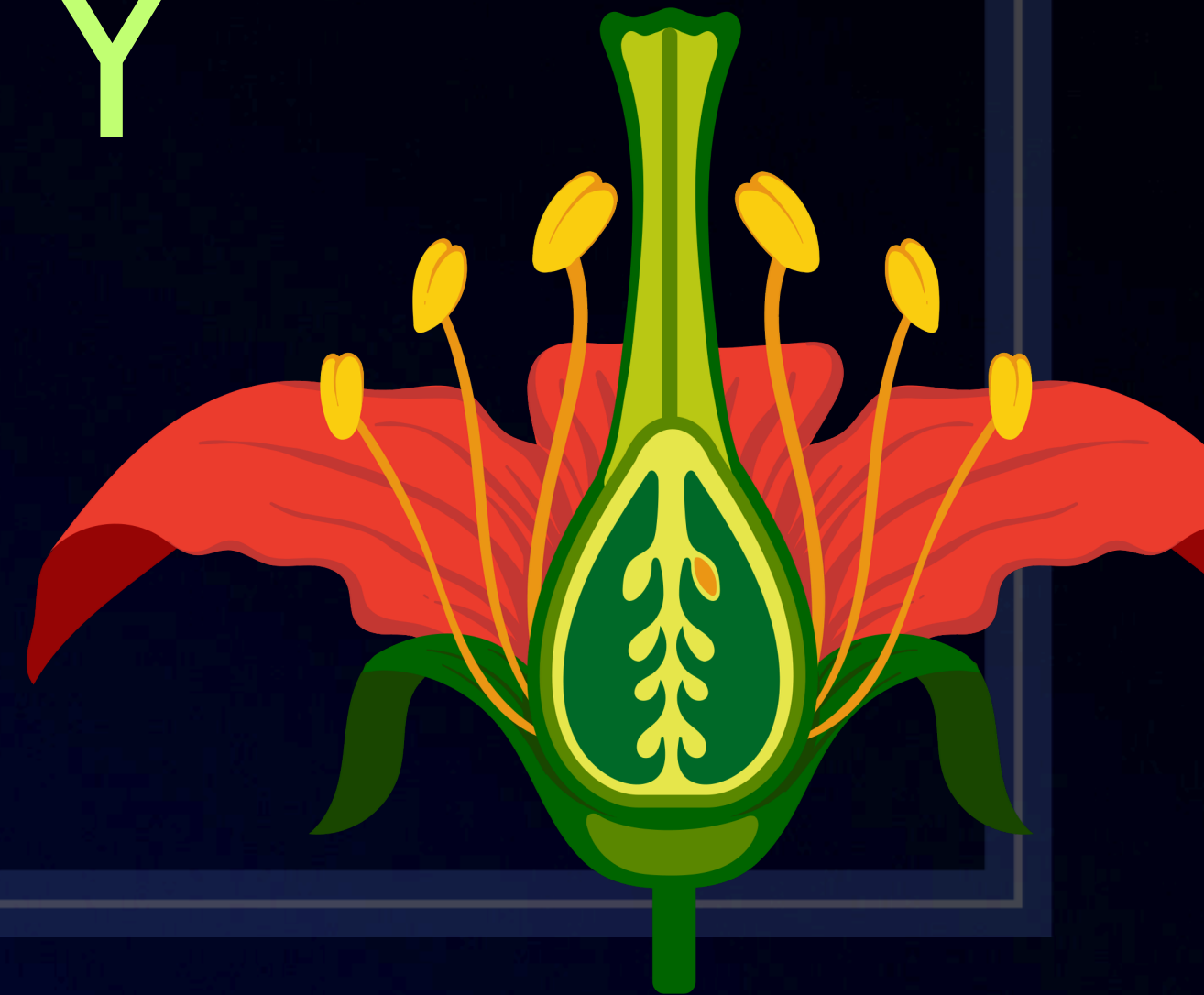
CREATE
YOUR
destiny

DREAM
BIG

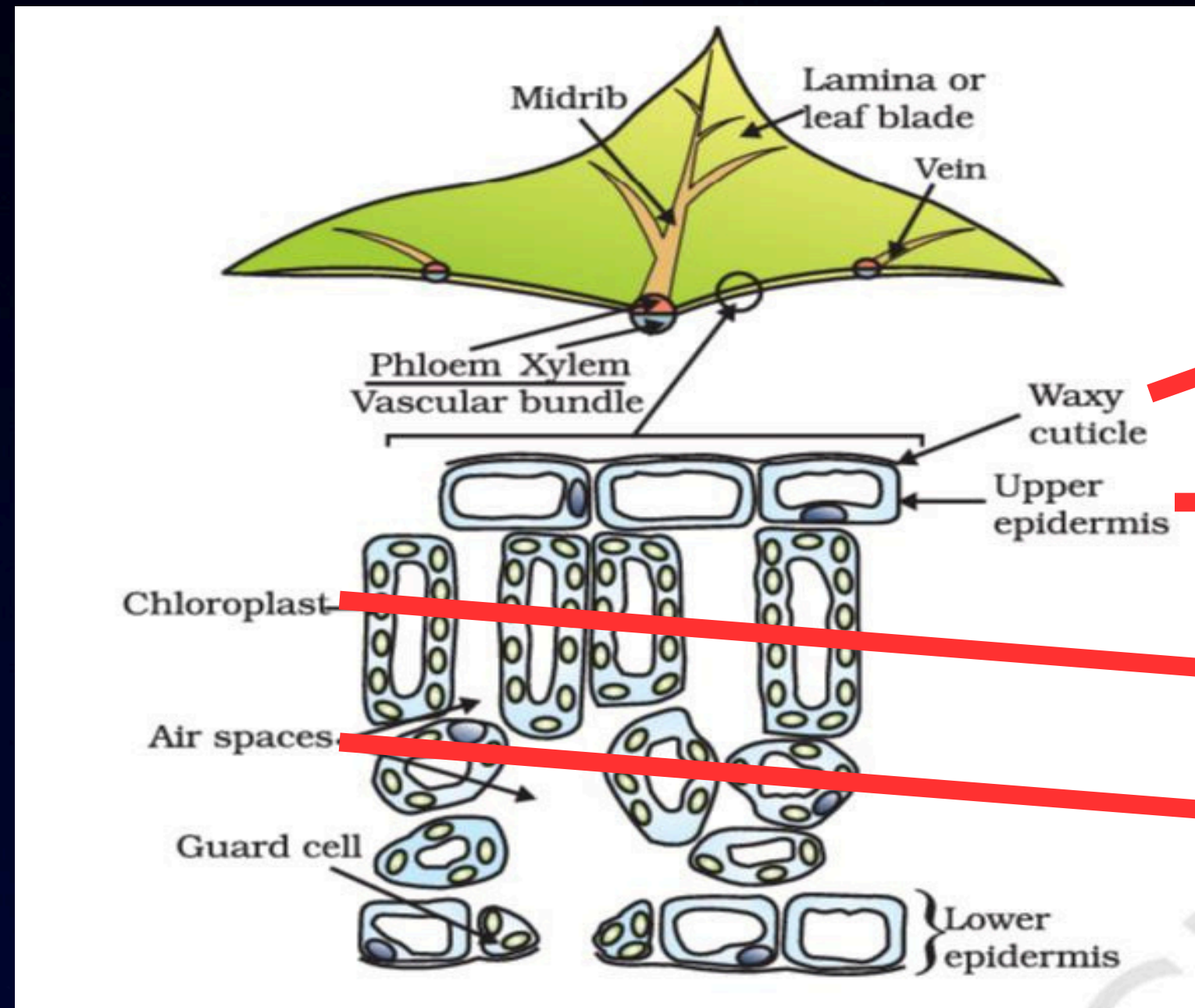
DO
YOUR
BEST



BIOLOGY



Cross-section of a leaf



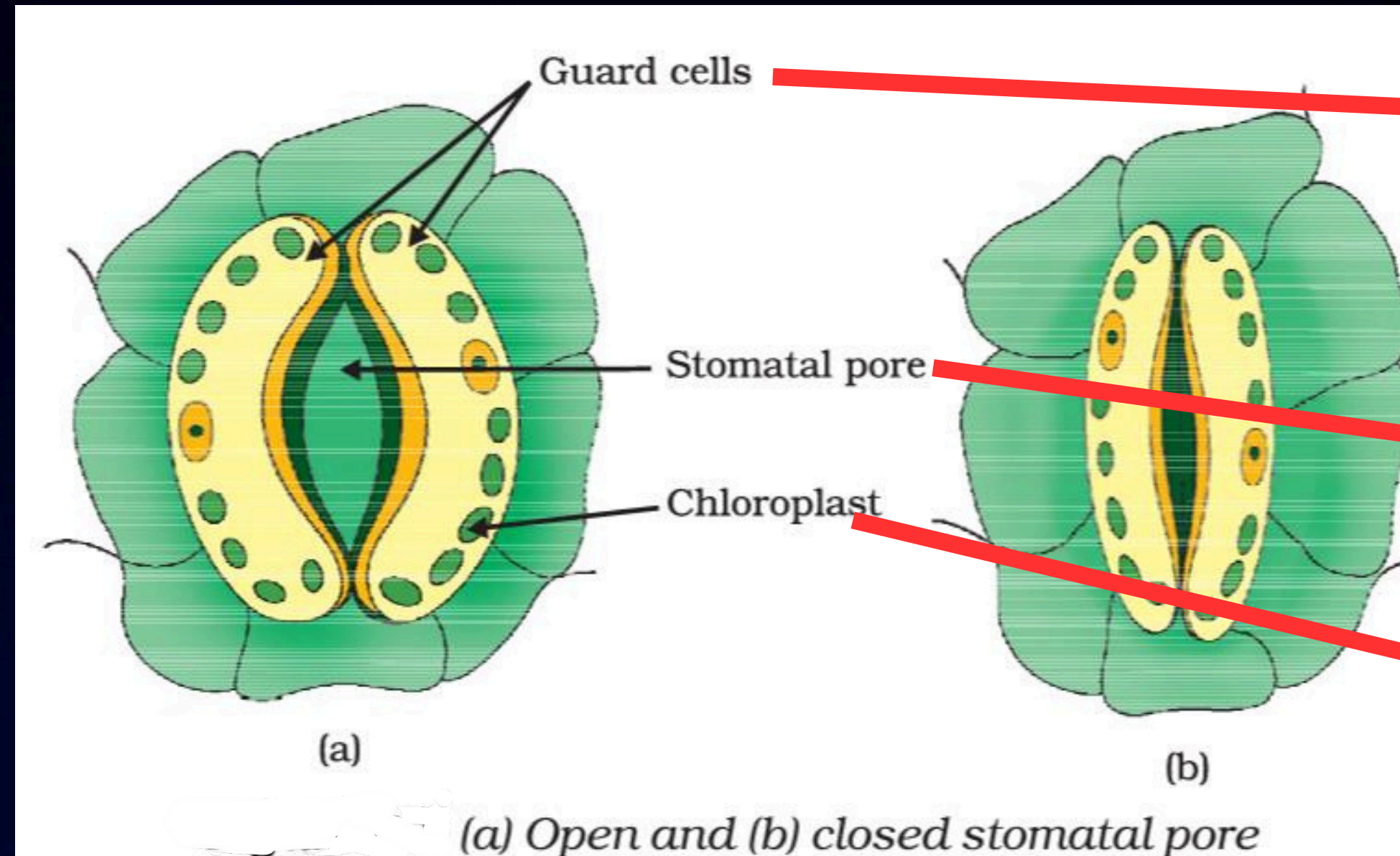
Prevents water loss

Protective layer of cells

Absorption of light

Allows diffusion of gases

Q. Identify and label the following structures in the stomata diagram: guard cells, stomatal pore

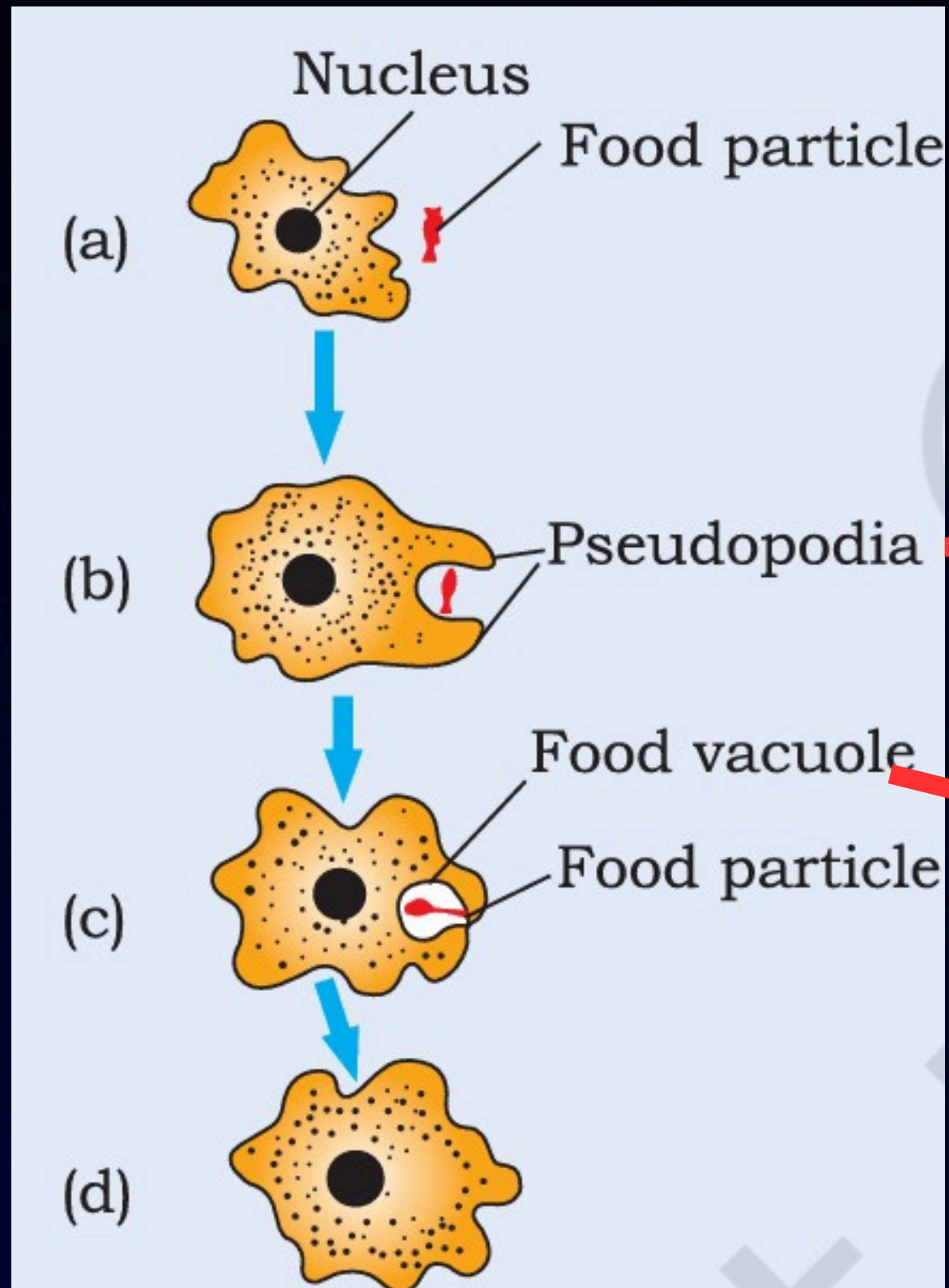


Regulates the closing and opening of Stomata (amount of water)

Controls Gaseous Exchange

Traps light energy and converts it into usable chemical energy

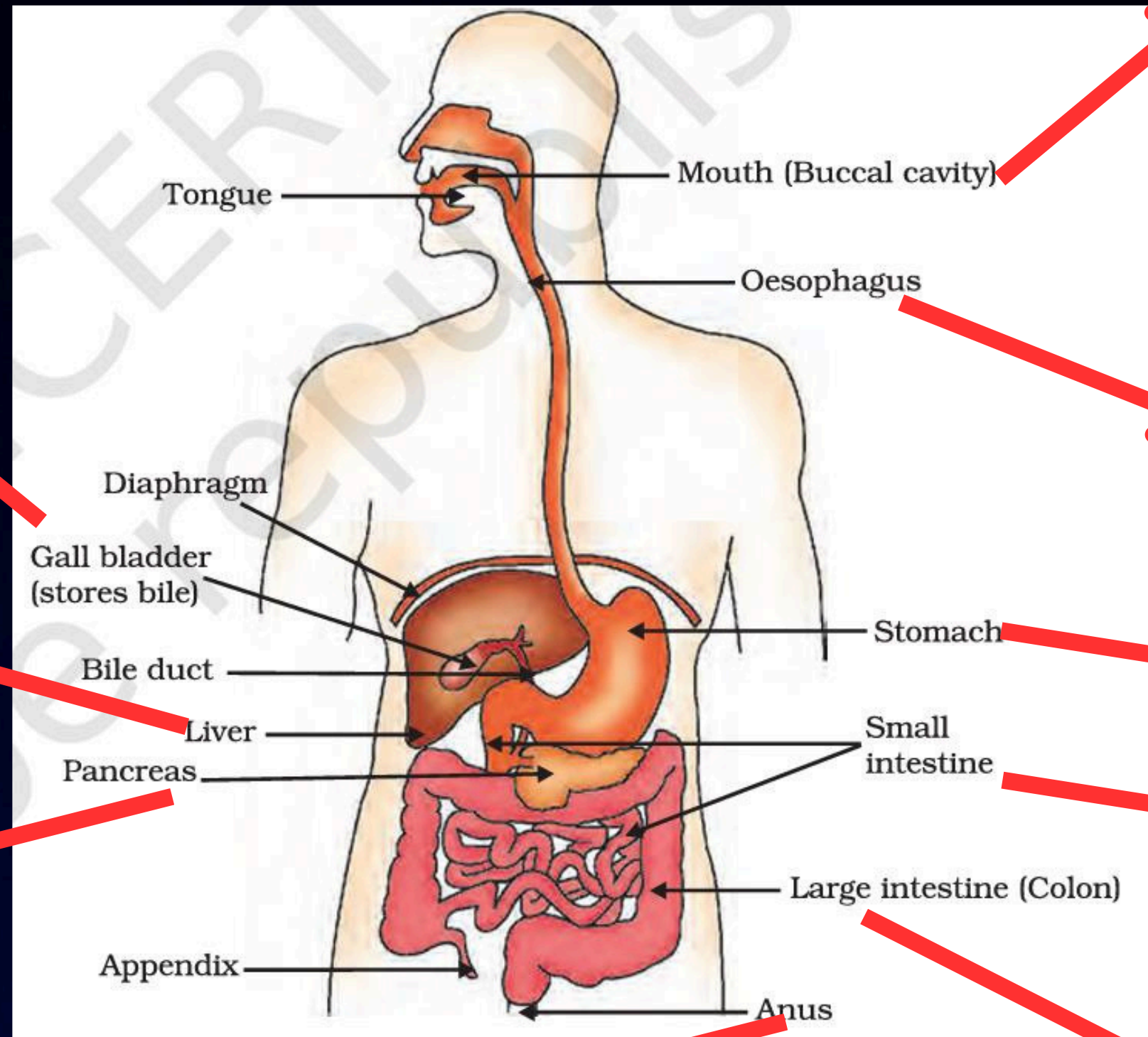
Nutrition in Amoeba



Engulfs Food Particles

Helps in Digesting the ingested food

Human alimentary canal



Digestion begins here as salivary glands release saliva which converts Starch into Maltose by salivary amylase. Peristaltic movement of the muscles in the digestive tract that move food through it.

Secretes HCl that kills bacteria & converts pepsinogen to pepsin

Digestion completes here by villi and intestinal enzymes breakdown:
PROTEINS - Amino acids
CARBOHYDRATES - Glucose
FATS - Fatty acids & Glycerol

Absorbs more water

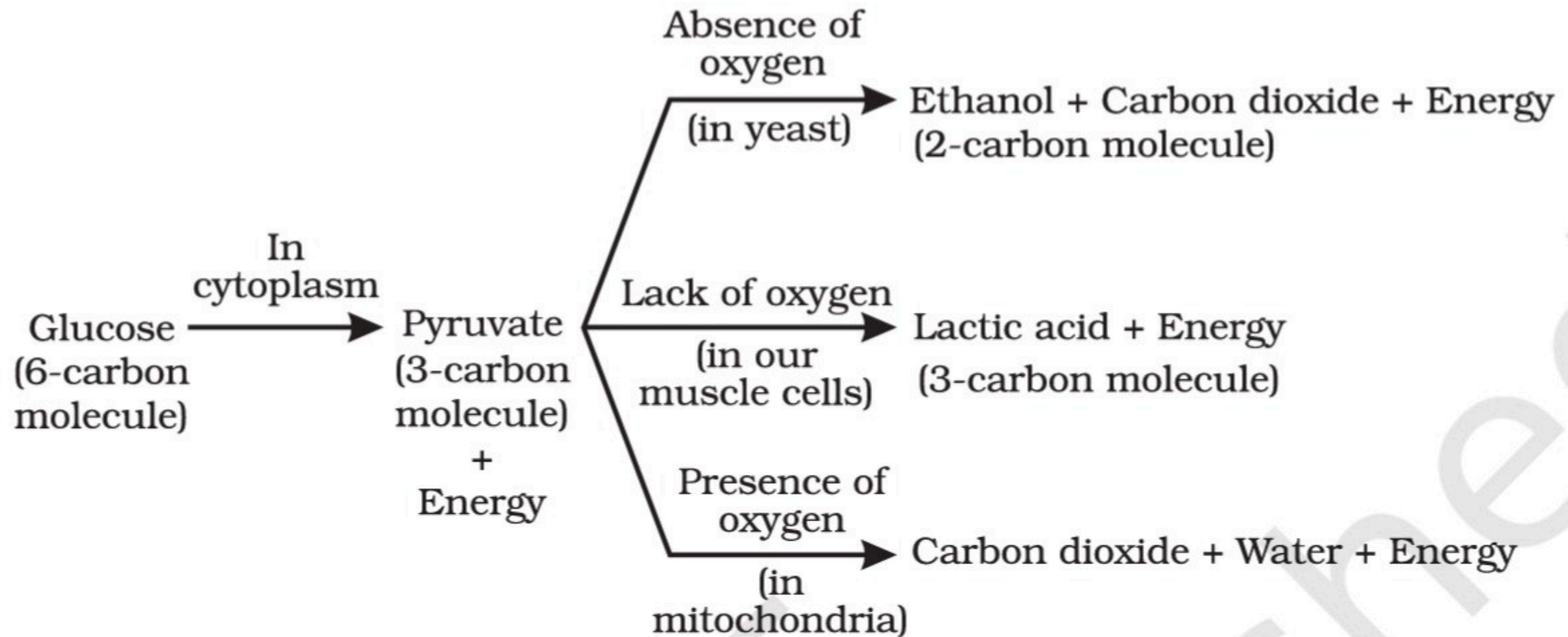
Waste is removed from the body

Increase the thickness of Bile

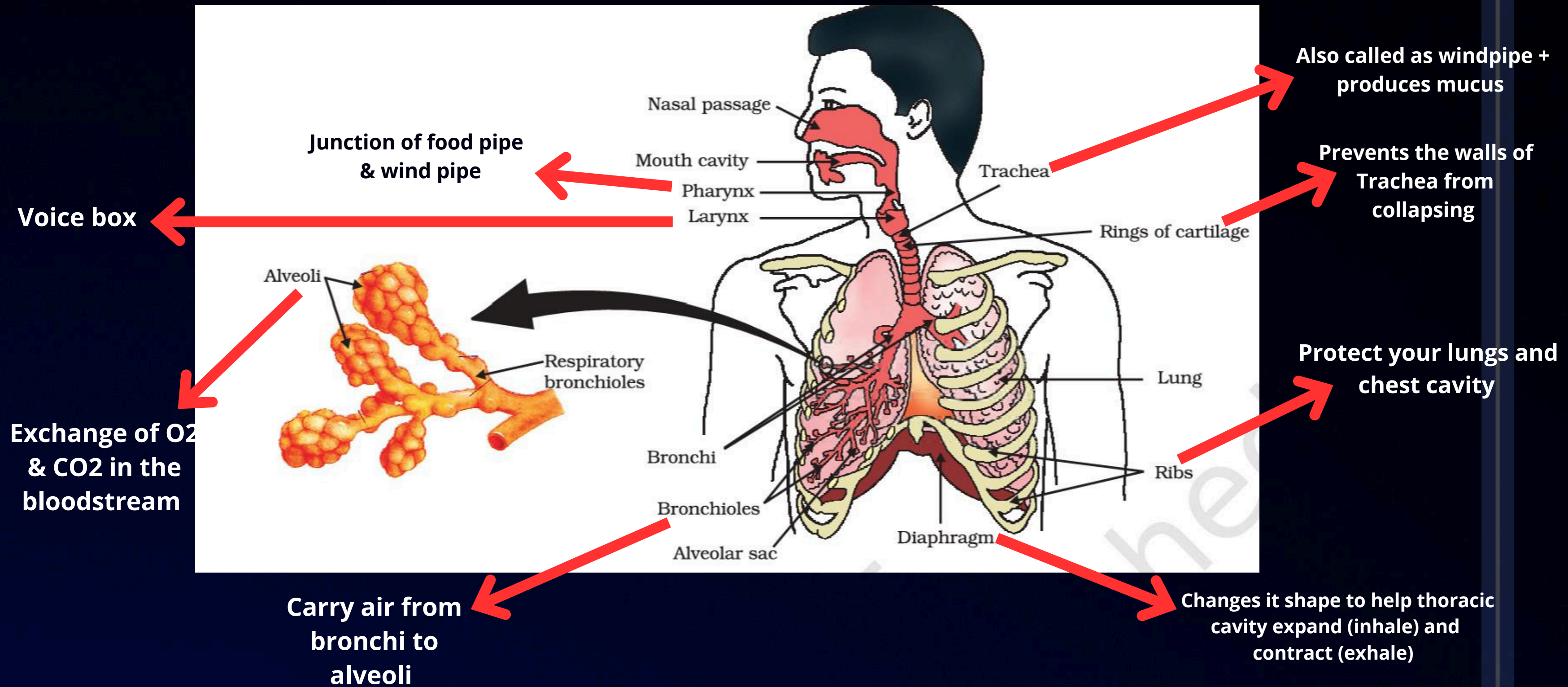
Secretes Bile
↓
Bile emulsify fat globules

Secretes :
Trypsin for Proteins
Lipase for Fats
Also secretes Insulin

Break-down of glucose by various pathways



Human respiratory system



Schematic sectional view of the human heart

Carries deoxygenated blood from body to heart

Carries deoxygenated blood from body to lungs

Receives deoxygenated blood from body

Carries Oxygenated blood from lungs to heart

Tricuspid Valve

Receives Oxygenated blood from lungs

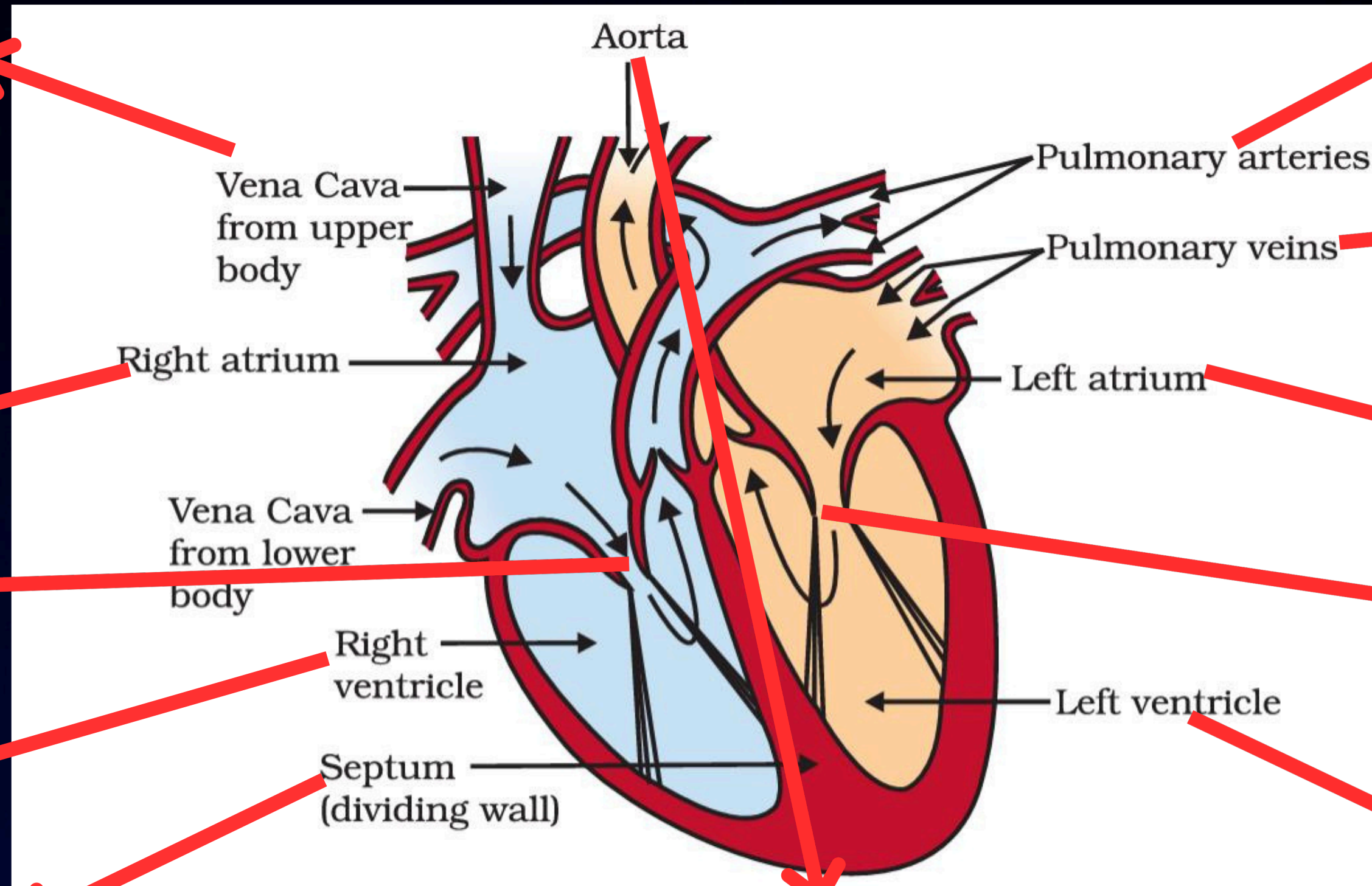
Receives deoxygenated blood from atrium

Bicuspid Valve

Separates oxy. & deoxy. blood

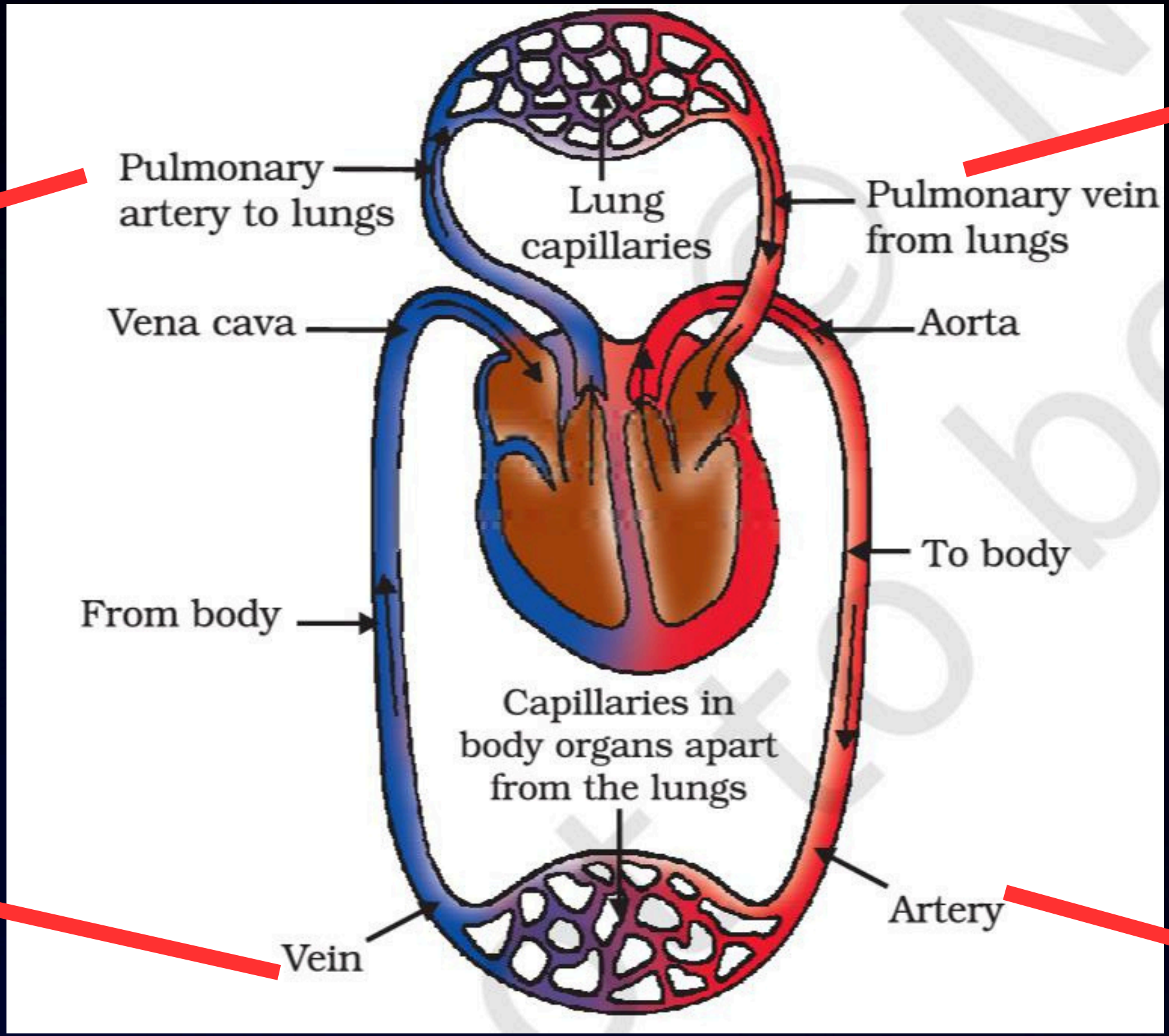
Carries oxygenated blood from heart to all body parts

Sends oxygenated blood to Aorta



**Sends
deoxygenated
blood**

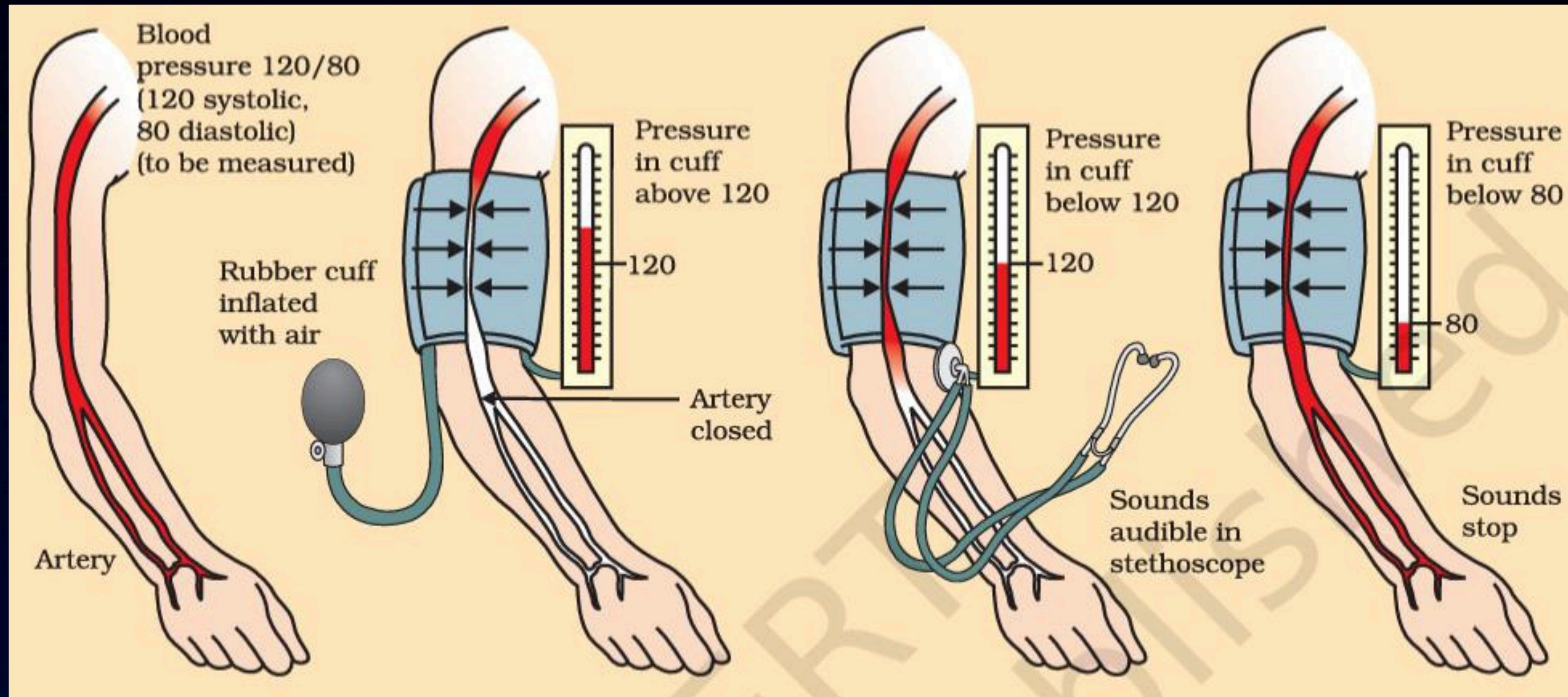
**Receives
oxygenated blood**



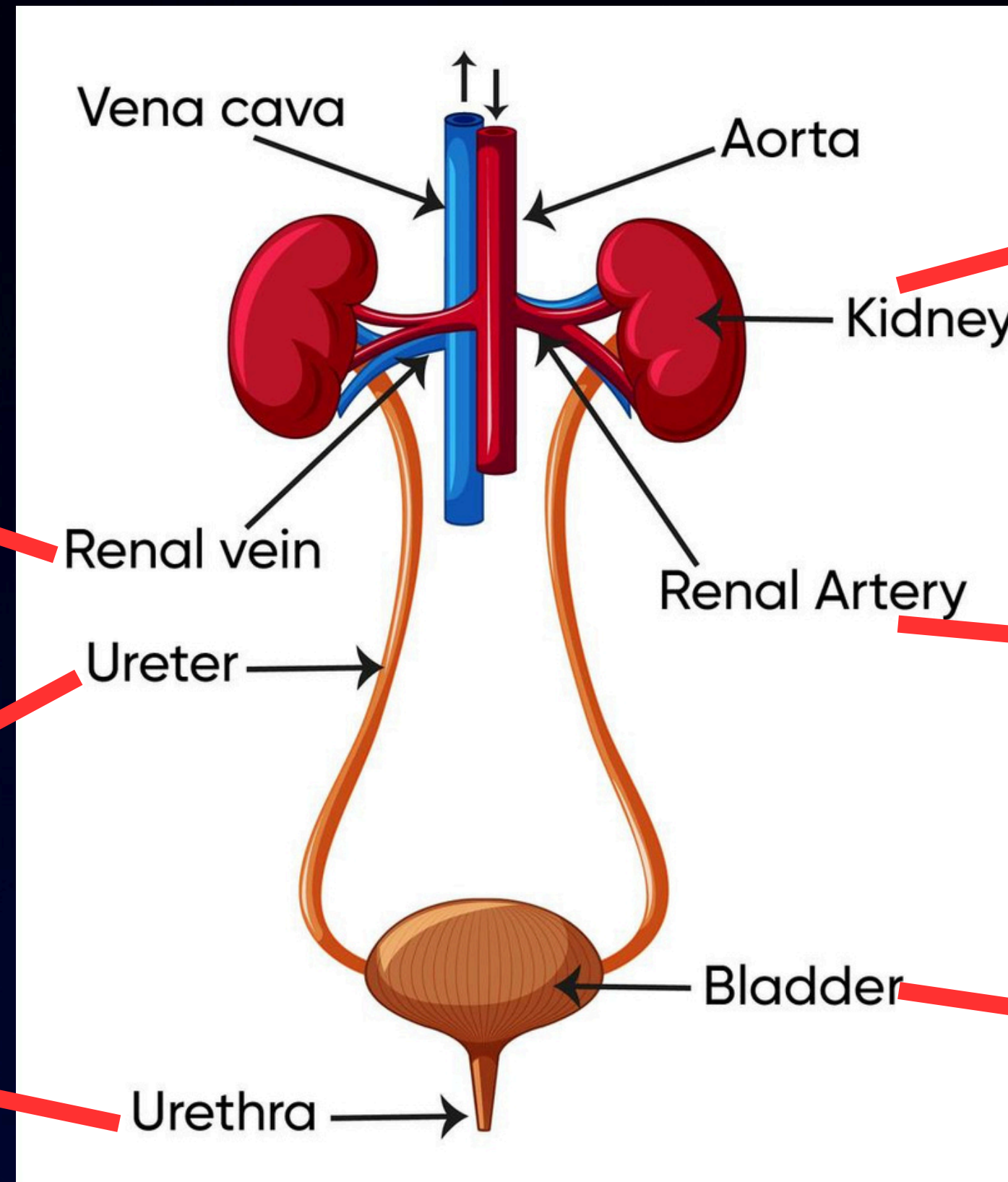
**Carries
deoxygenated
blood**

**Carries oxygenated
blood**

Sphygmomanometer



Excretory System



Contains millions of nephron to filter blood

Returns useful nutrient back into the bloodstream after filtering unwanted materials in kidney

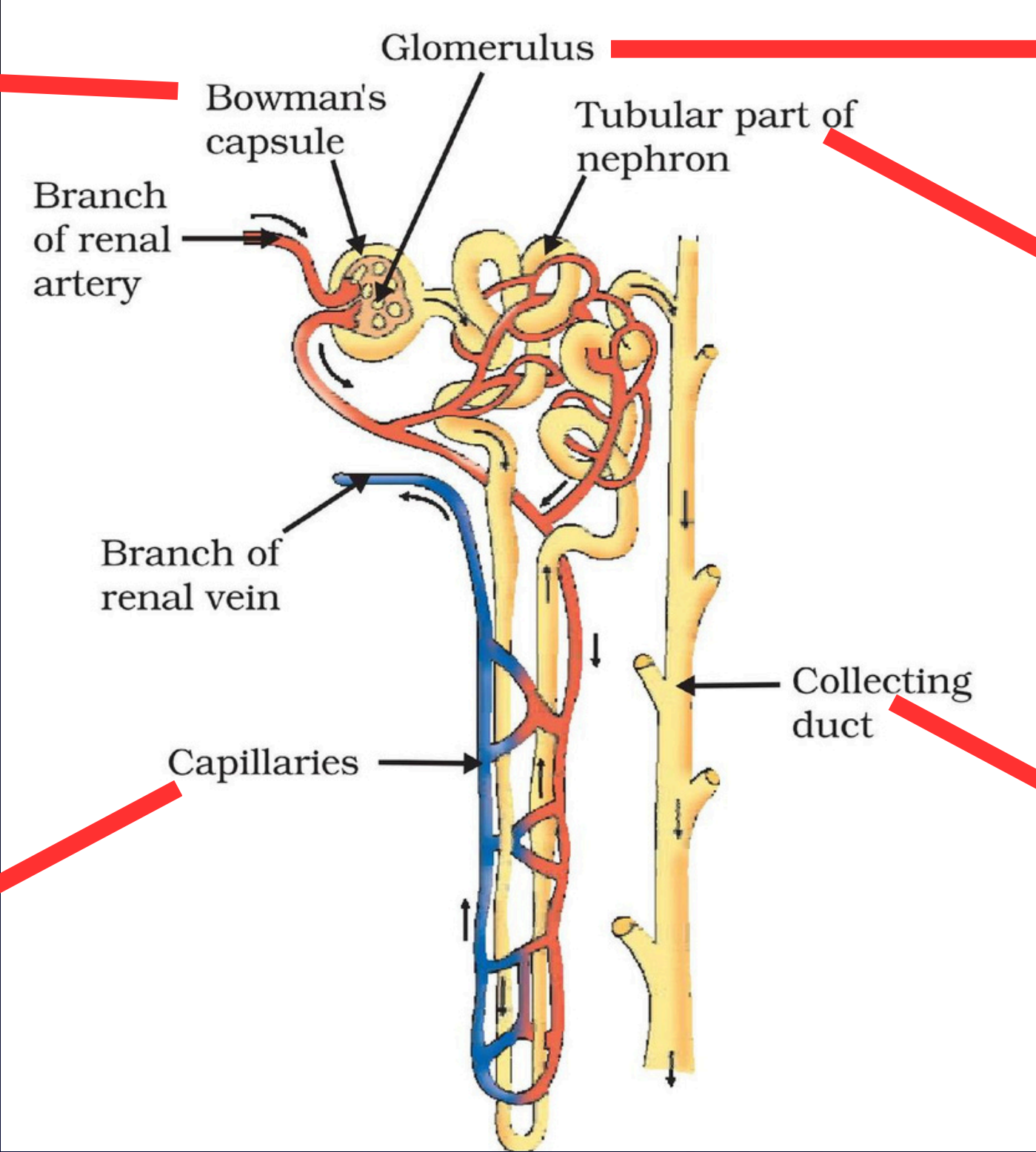
Constantly transport blood to each kidney

Carry urine from kidney to the bladder

Urine is stored until it is thrown out

Carry urine from the bladder to outside of the body

Structure of a Nephron



Collects the Blood to filter

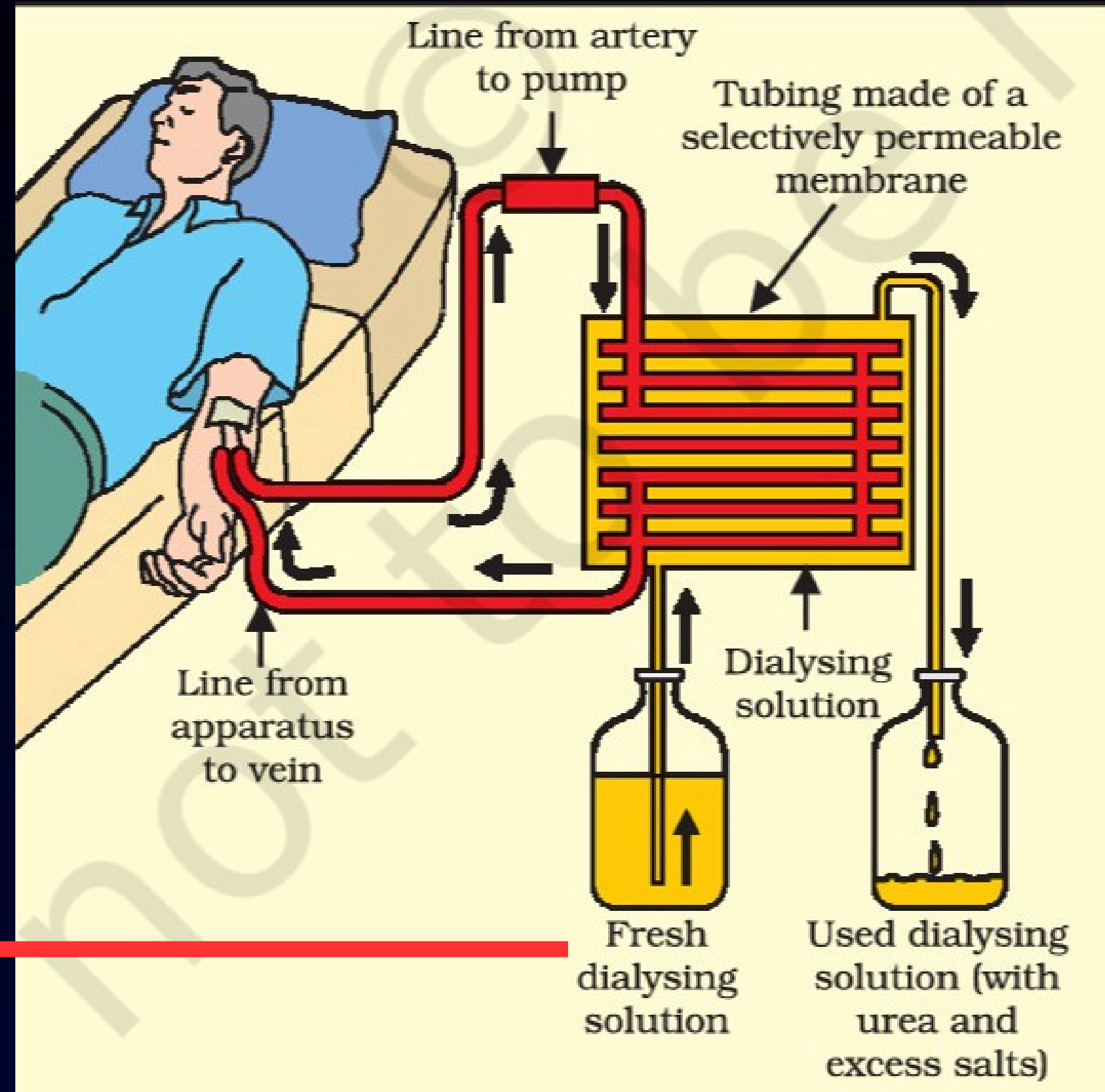
Network of capillaries which filters the blood

Helps in reabsorption of essential nutrients from filtrate passing through it

Filtering waste from blood, creating urine, and reabsorbing nutrients

Osmoregulation (Water Retention)

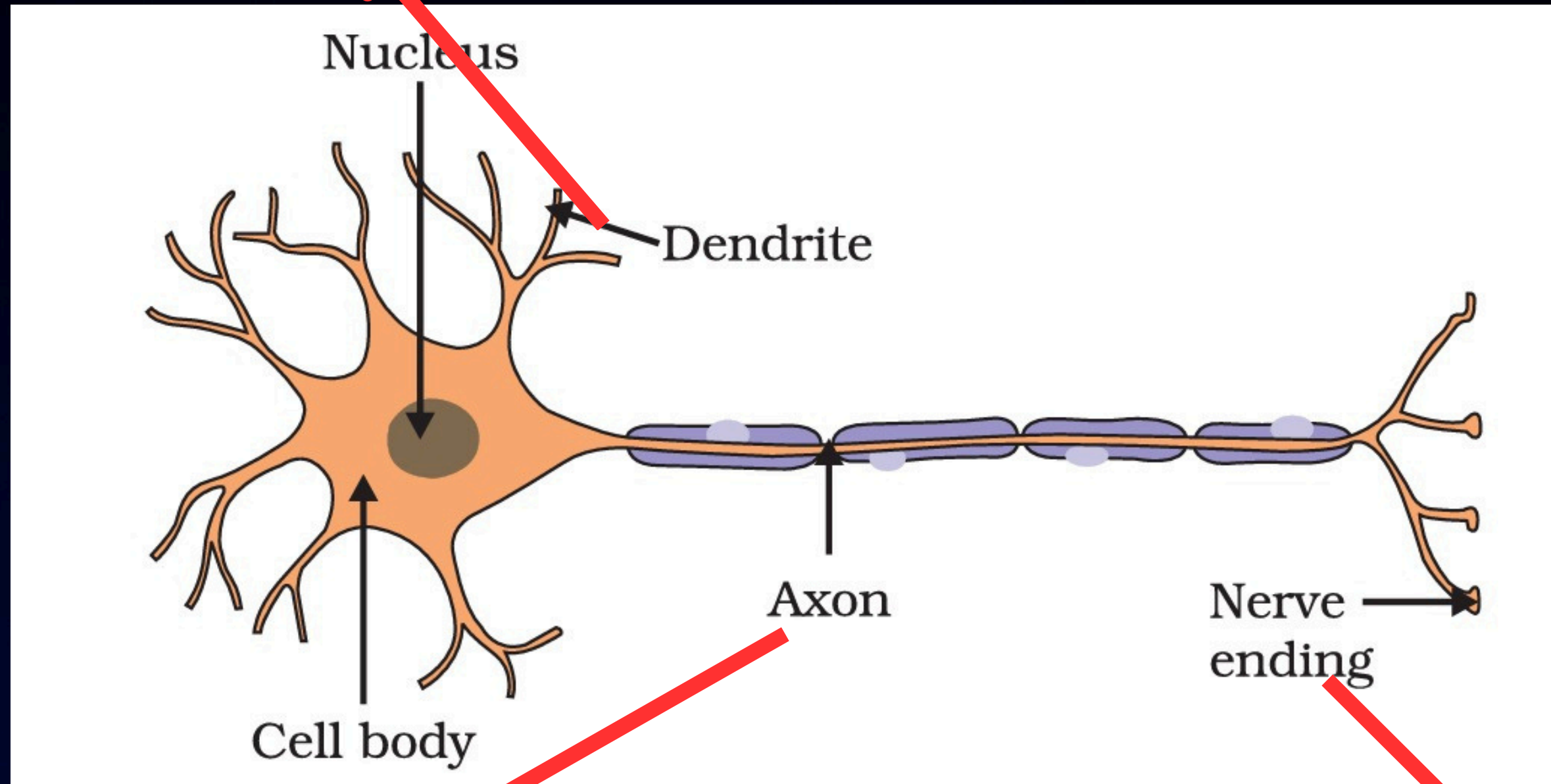
Artificial kidney (Hemodialysis)



Same osmotic pressure as blood

NEURON

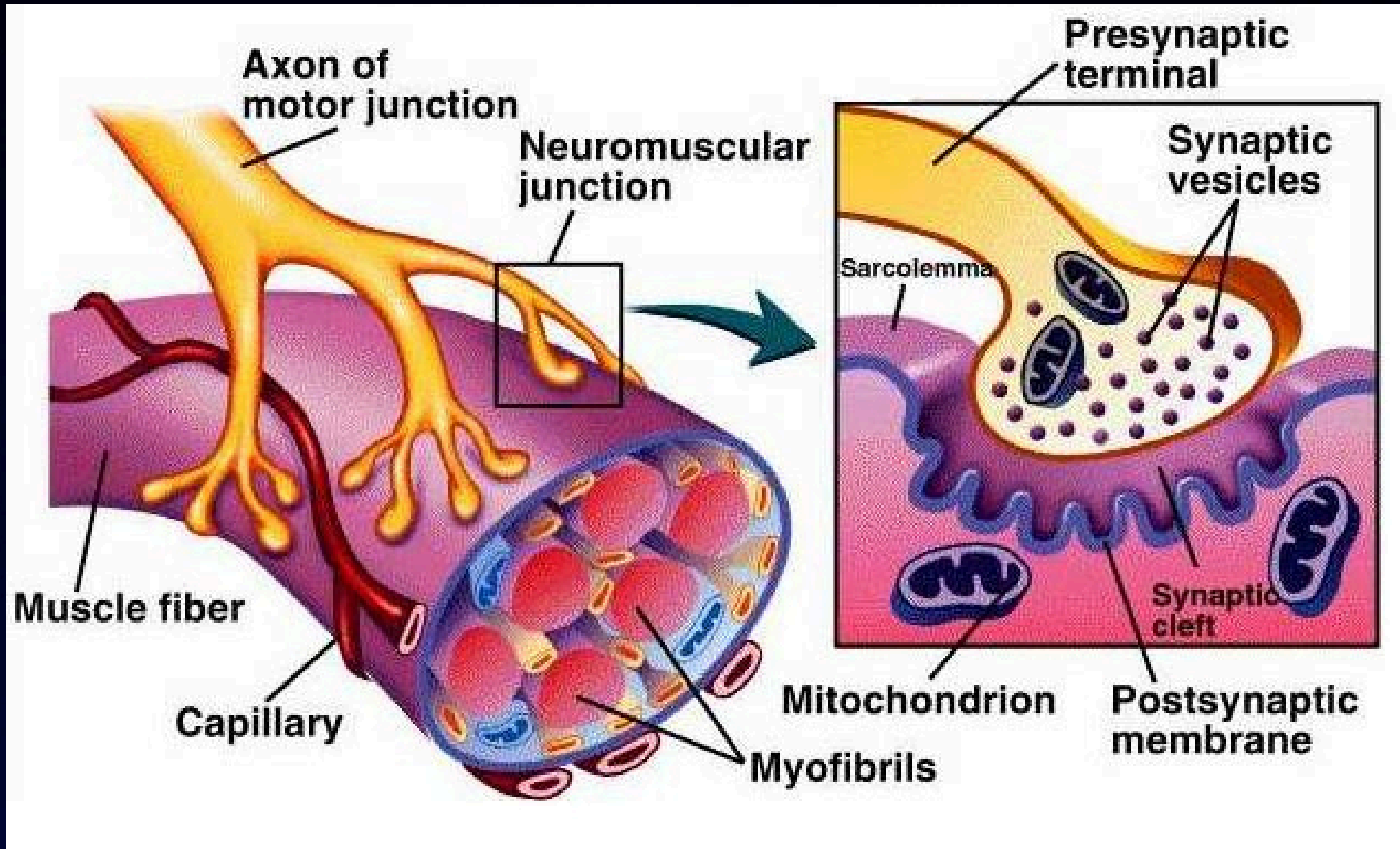
Shortest Fibres which
Acquires information



Longest Fibre in which
information travels as an
electric impulse

Impulse converted
into a chemical signal

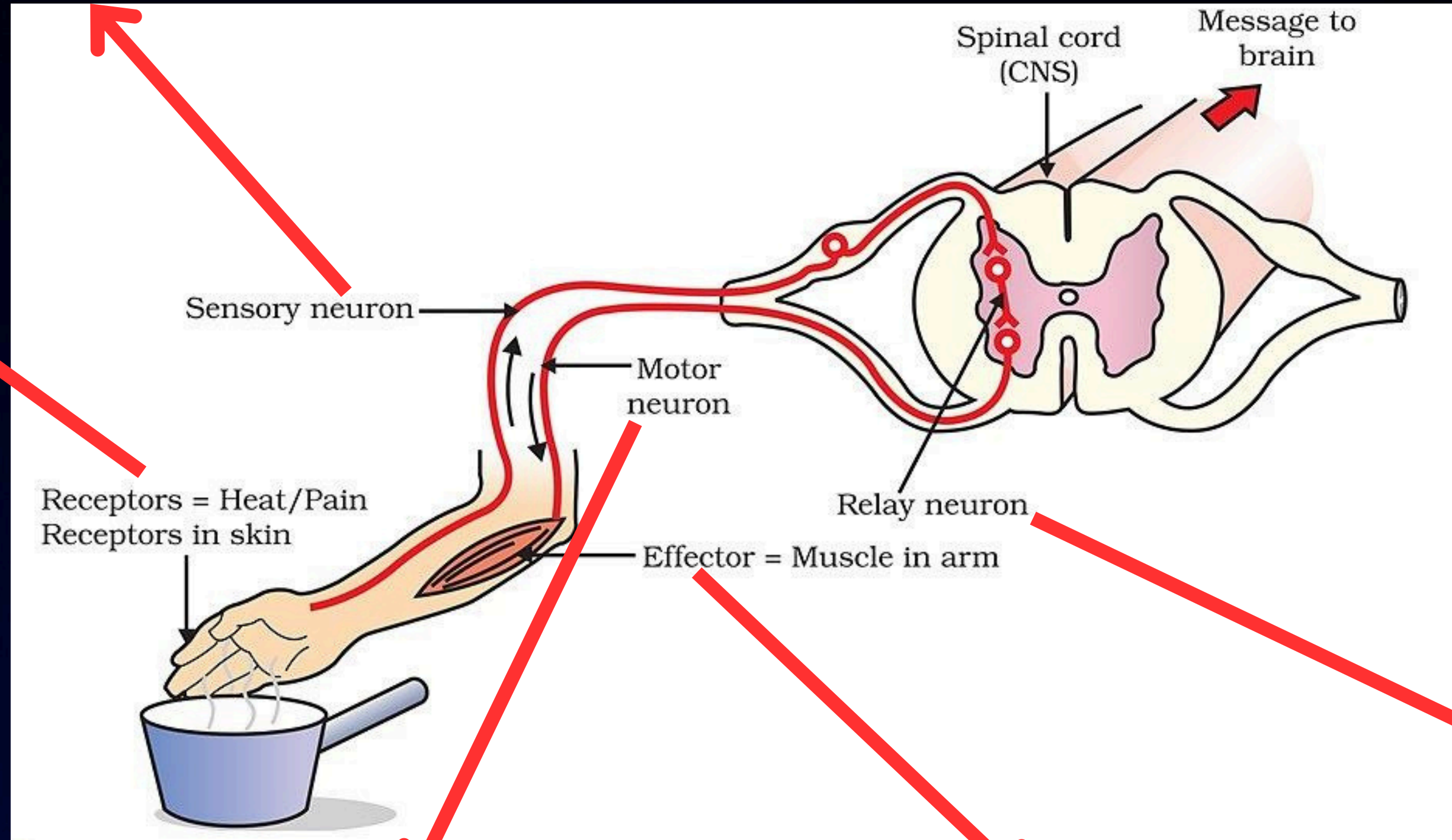
Neuromuscular junction



Reflex Arc

Carry signal to the brain
from receptors

Receives
stimuli

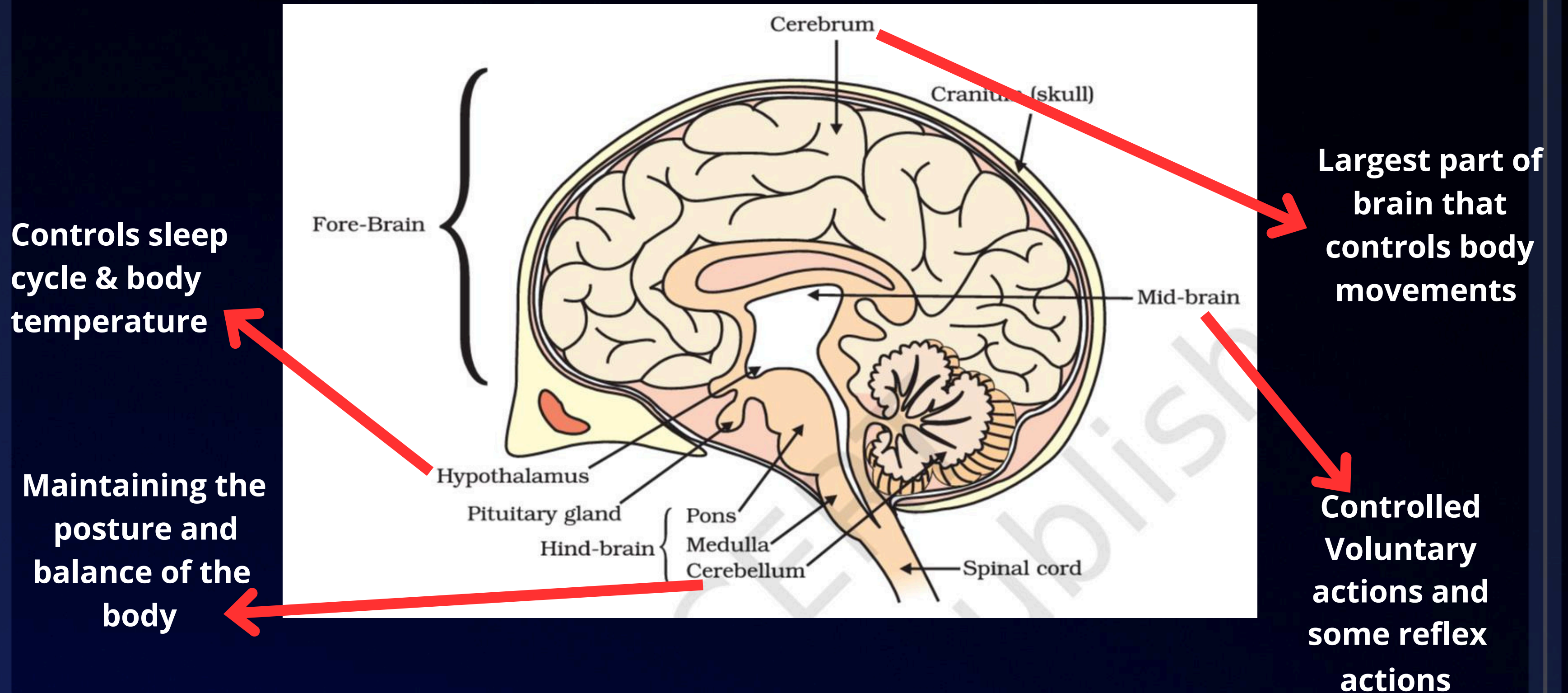


Carry order from brain to
effector body parts

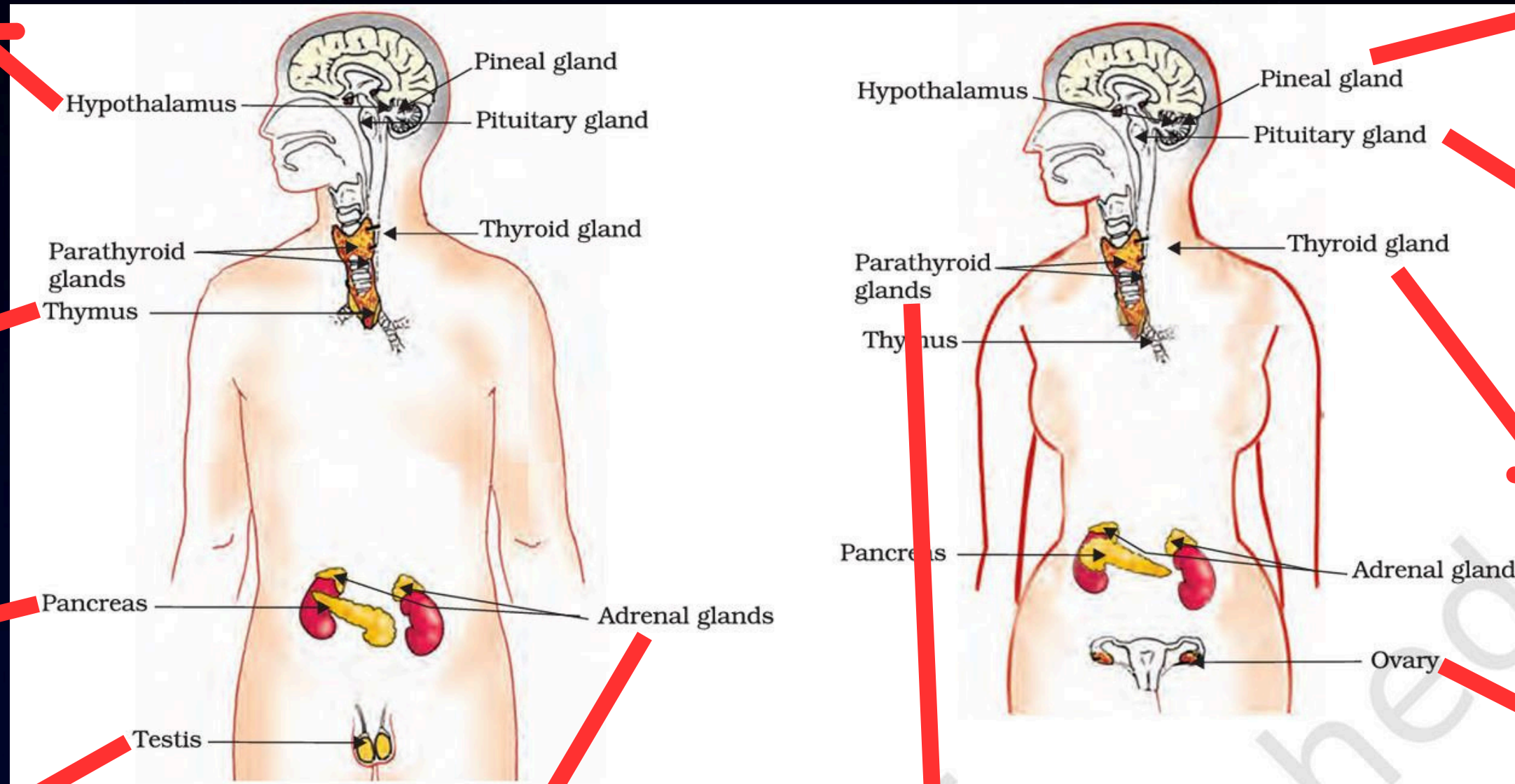
Responds
stimuli

Allows sensory & motor
nerves to communicate

Human Brain



Endocrine Glands



Regulates the secretion of hormones from pituitary gland

Helps in the development of immune system

Releases Insulin Hormone to regulate blood sugar level

Releases Testosterone Hormone

Releases Adrenaline Hormone

Secretes the Parathormone to increase the calcium and phosphate level in blood

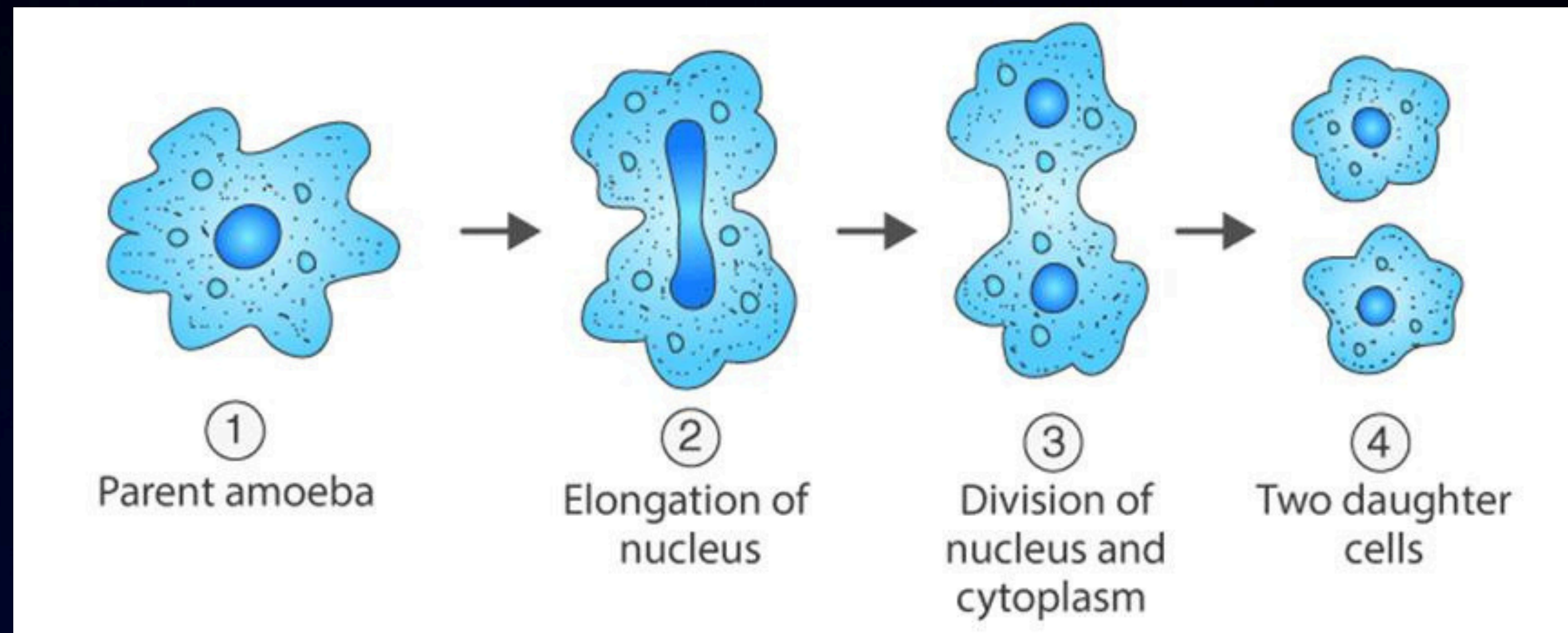
Regulates circadian rythms by releasing Melatonin hormone

Master Gland and Releases Growth hormone

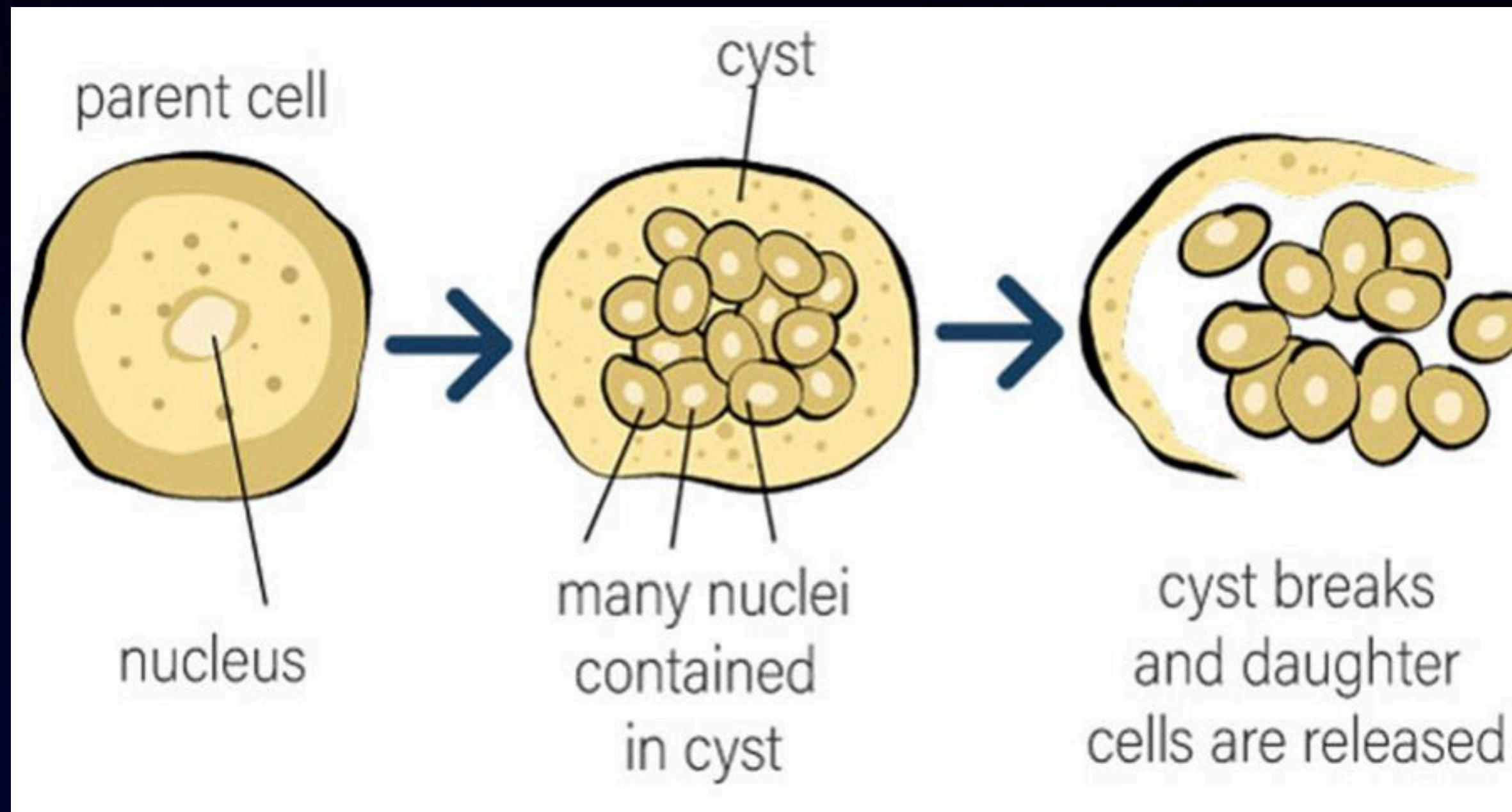
Regulates metabolism for body growth by the synthesis of thyroxin hormone

Development of female sex organs, regulates menstrual cycle, etc.

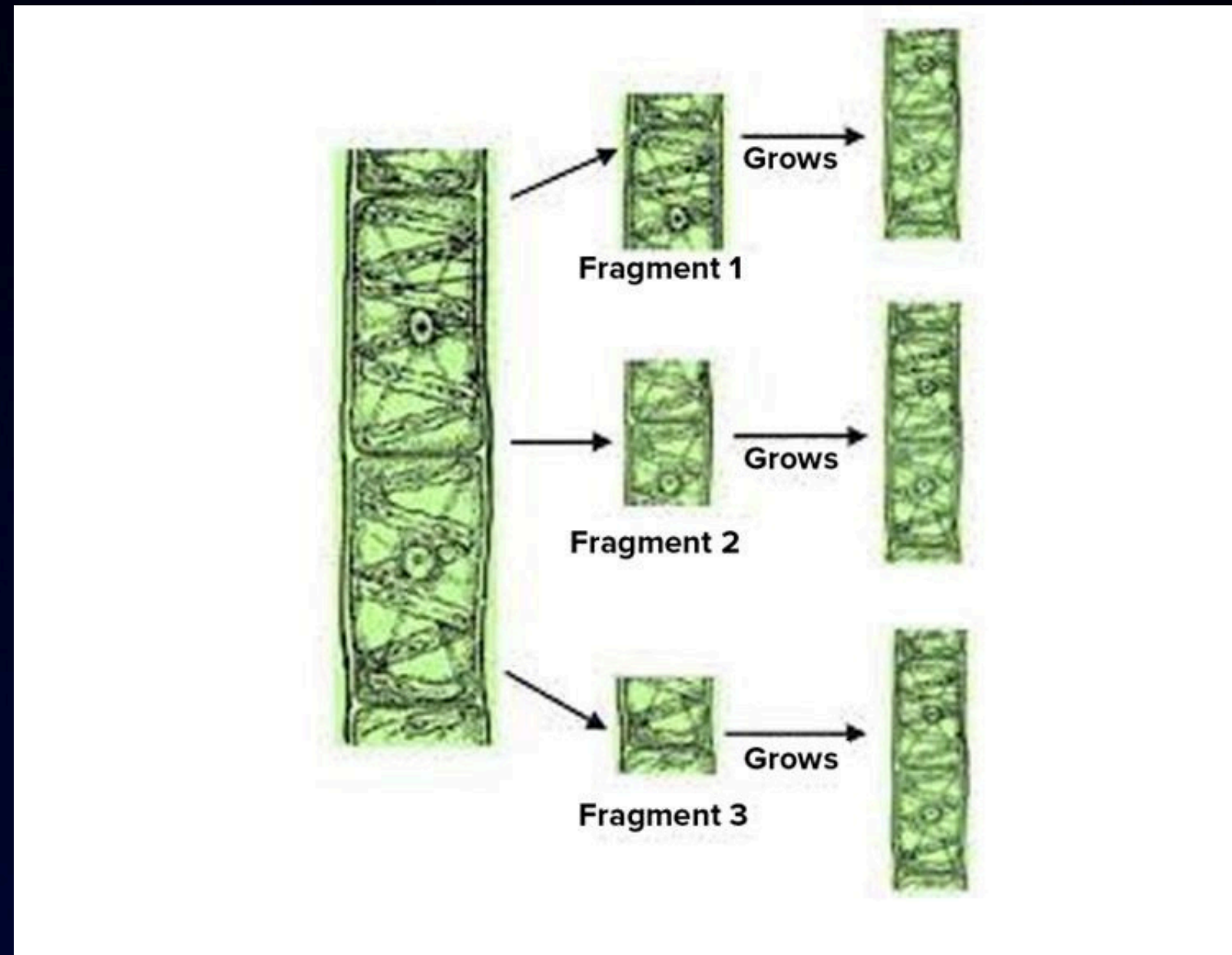
Binary fission in Ameoba



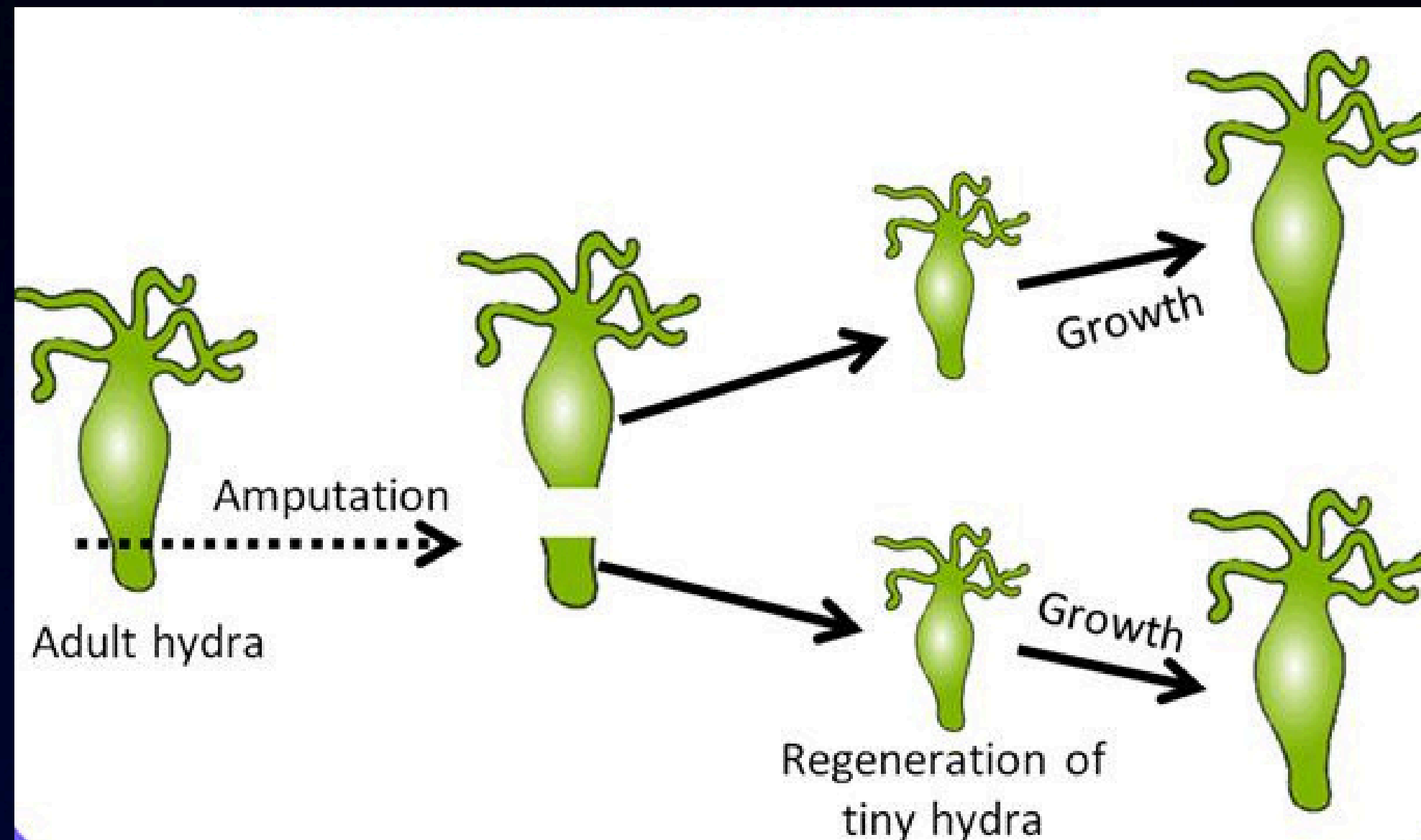
Multiple fission in Plasmodium



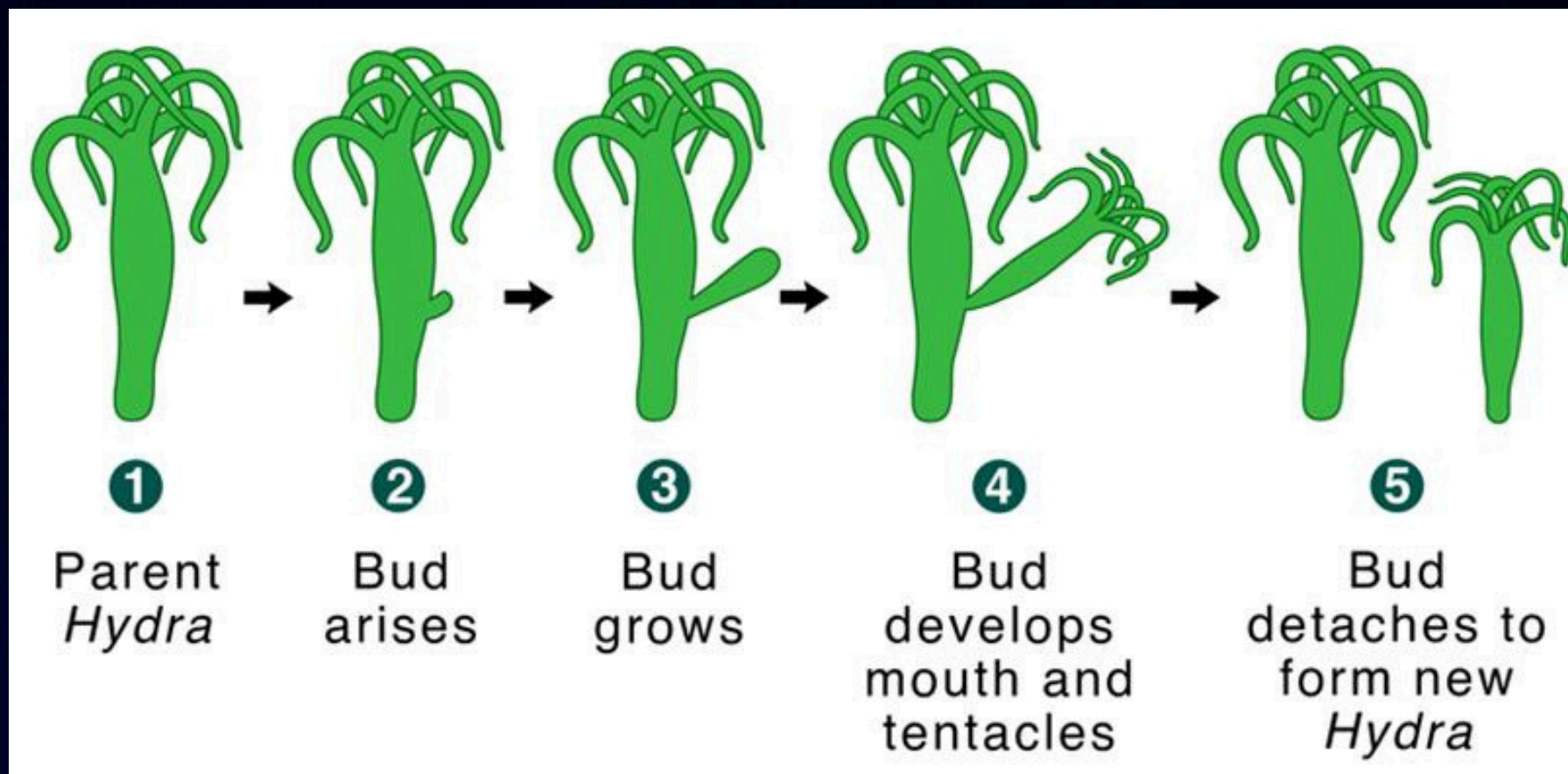
Fragmentation in Spirogyra



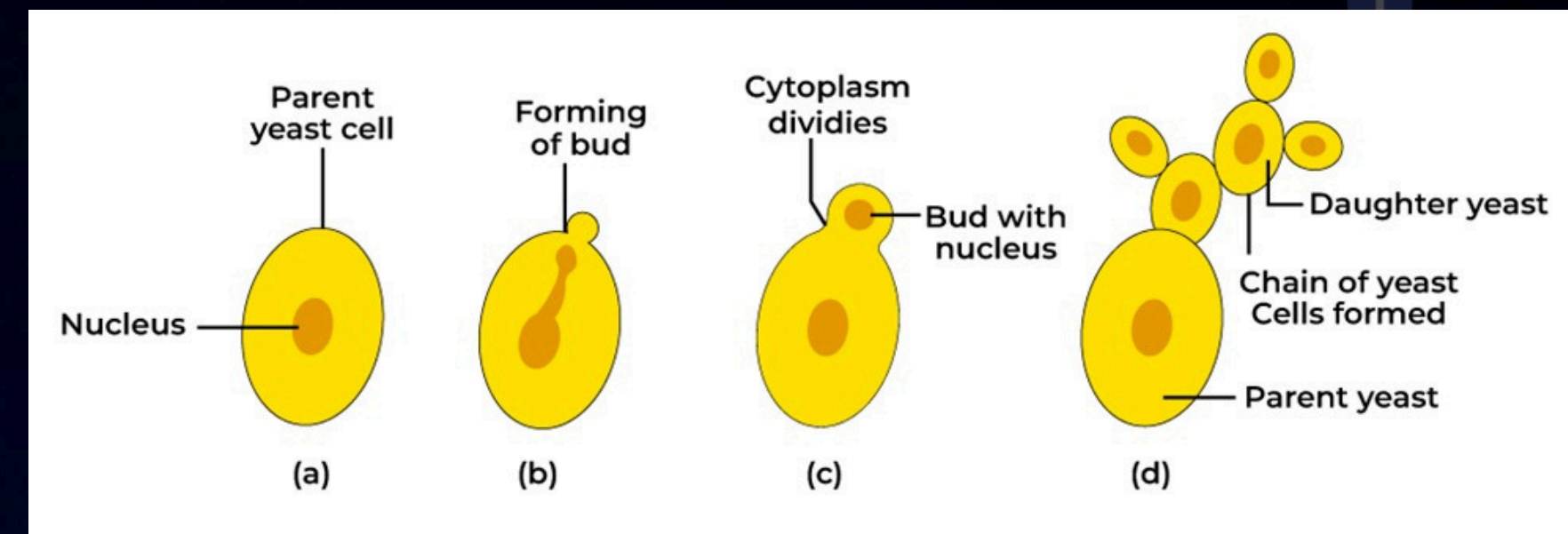
Regeneration in Hydra



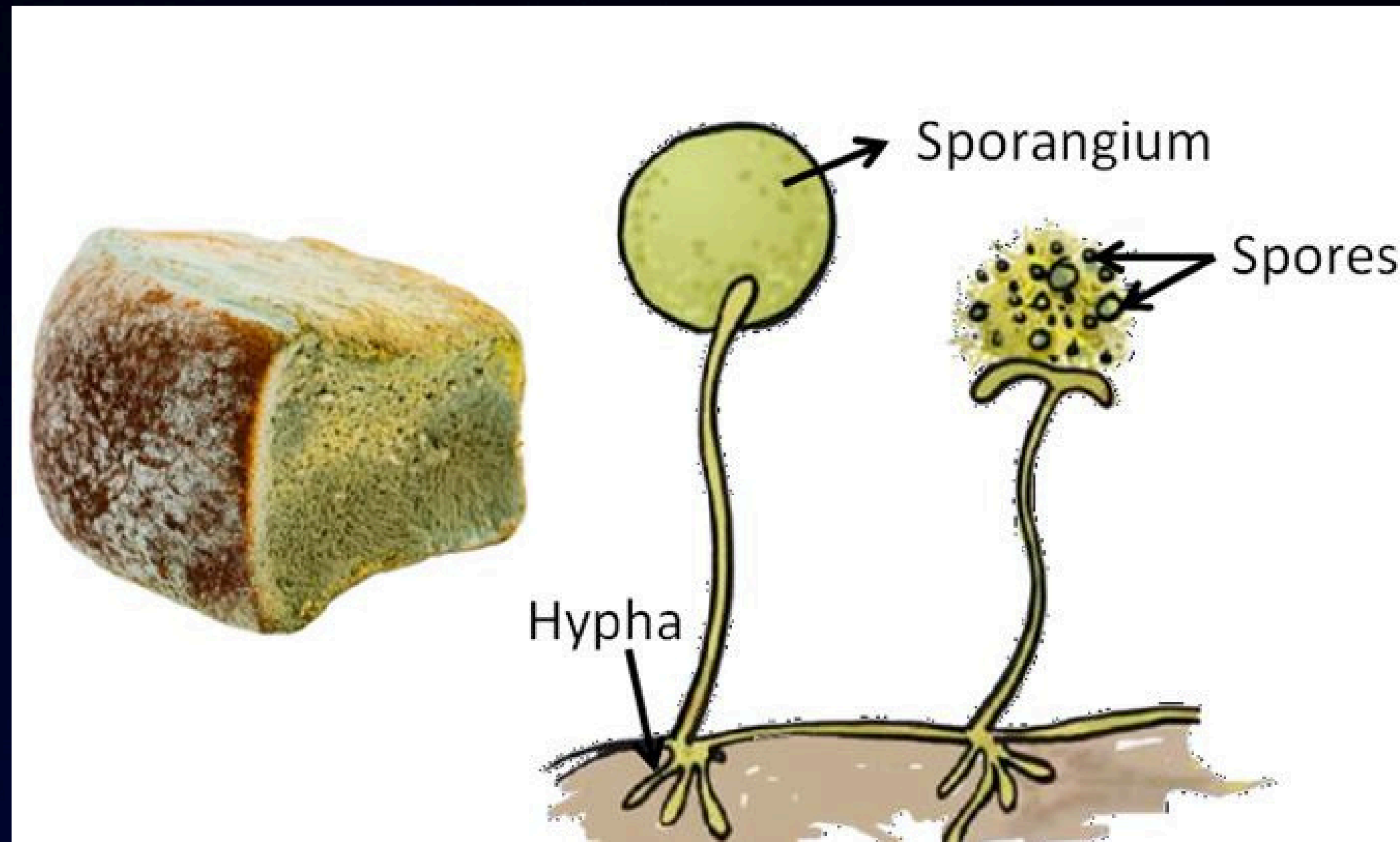
Budding in Hydra



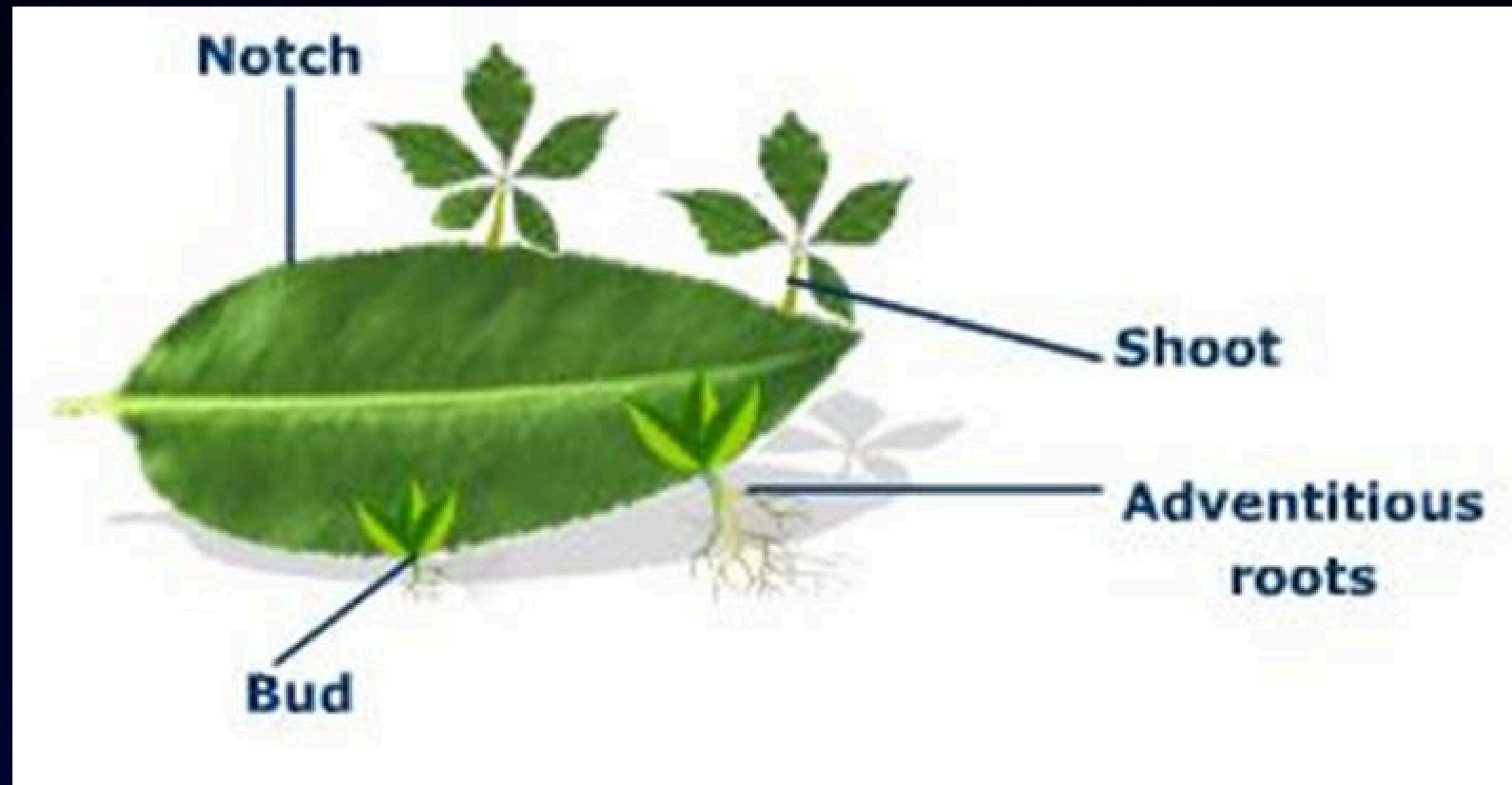
Budding in Yeast



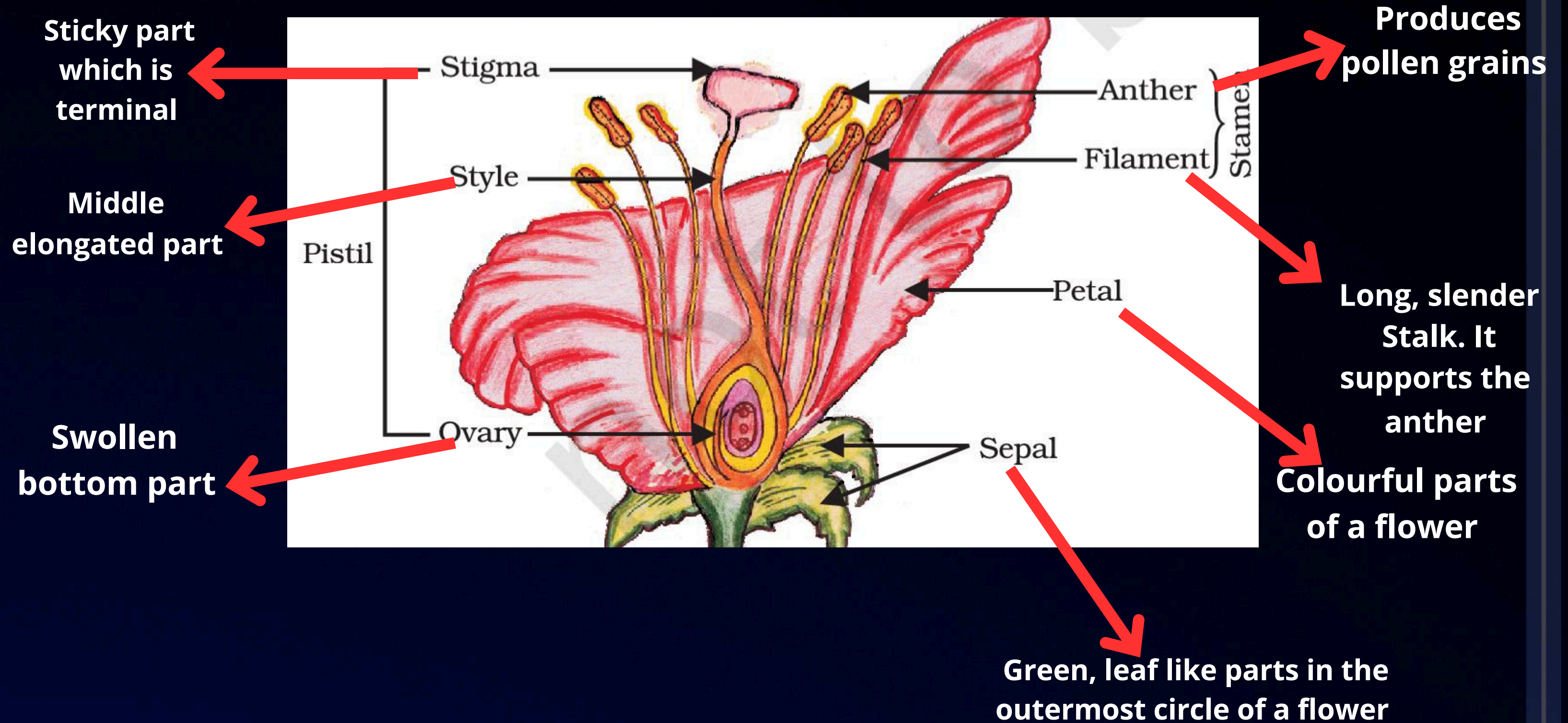
Spore formation in Rhizopus



Vegetative propagation in Bryophyllum



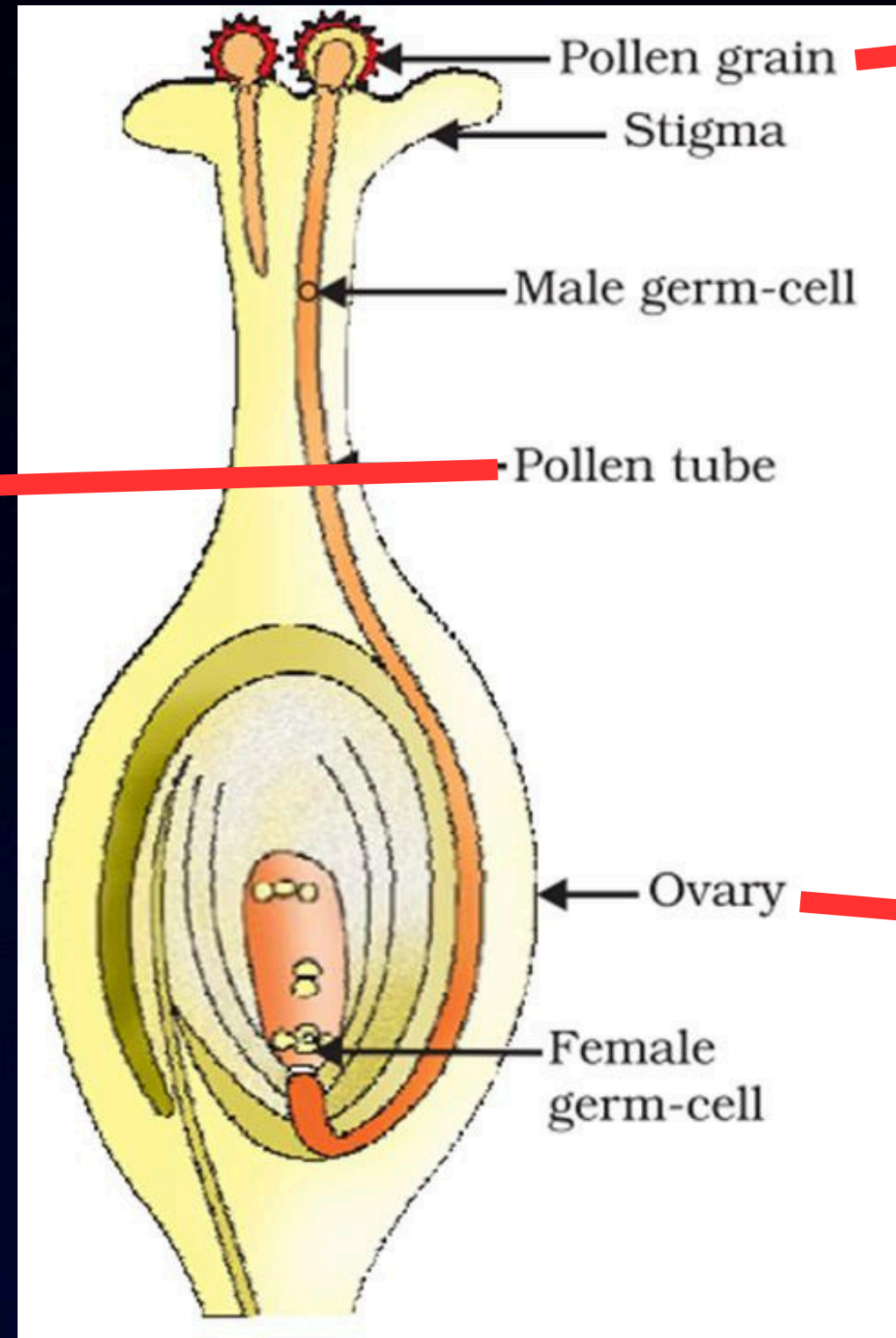
Longitudinal section of flower



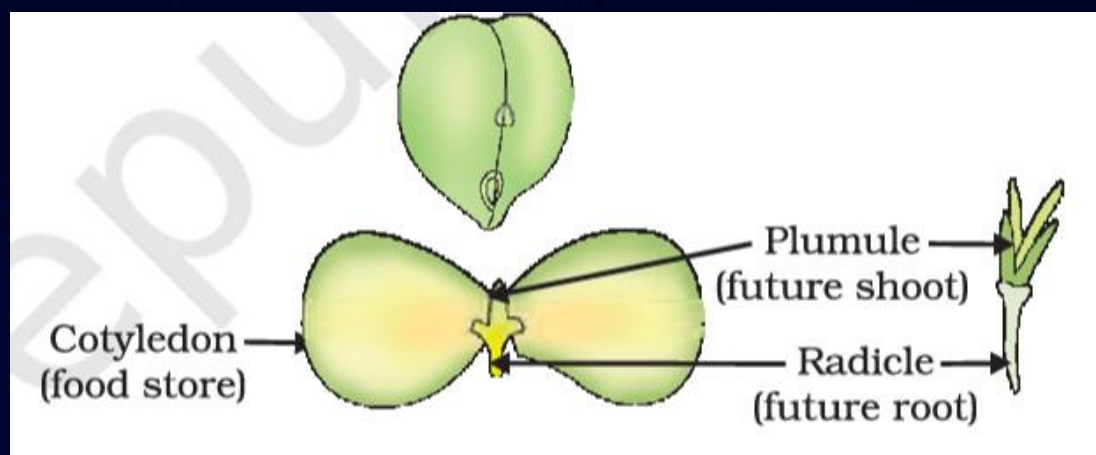
Germination of pollen on stigma

Produce male germ cell

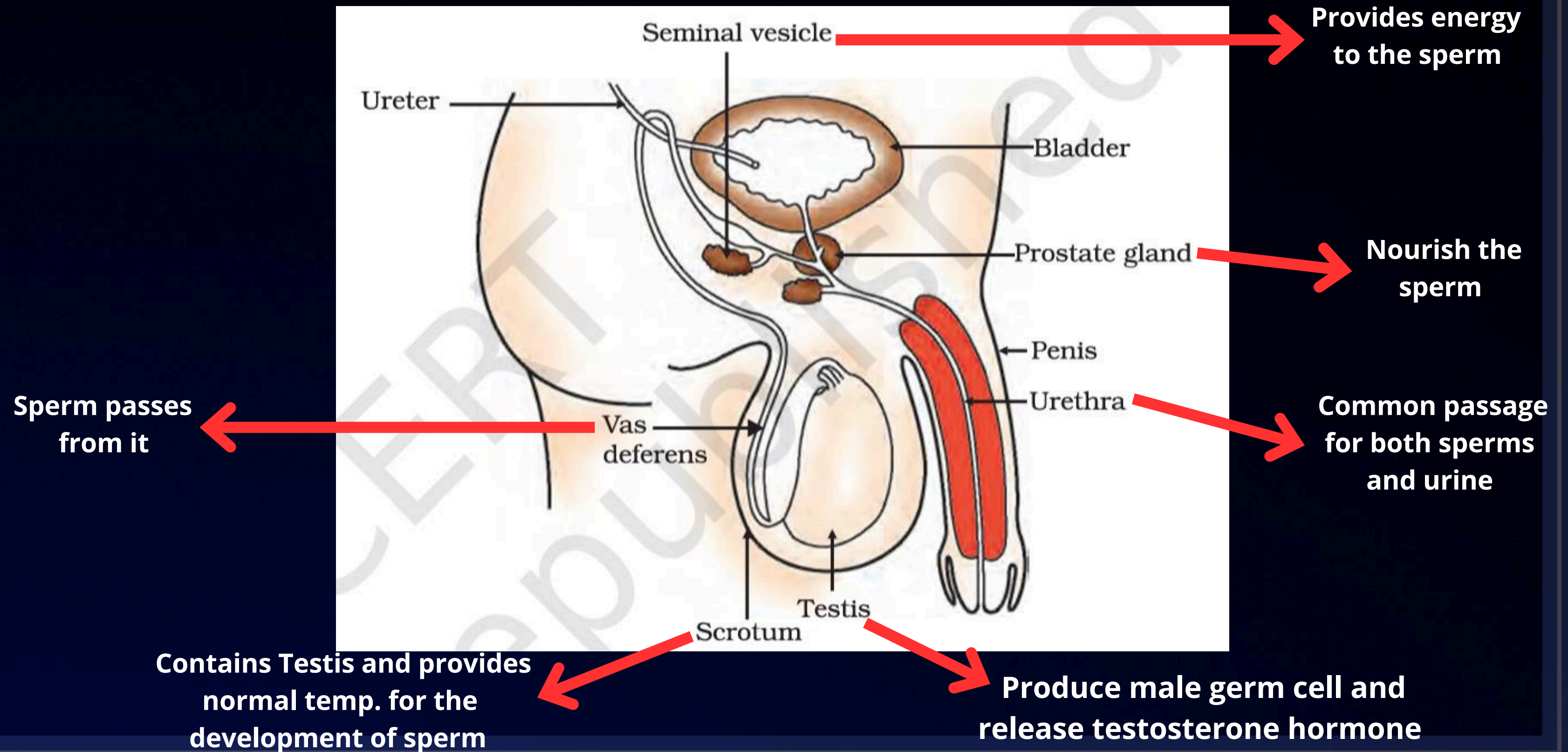
Allows the passage of pollens from female reproductive part



Prepare ovules & protect the developing zygote i.e. the fusion of male and female gametes



Male reproductive system



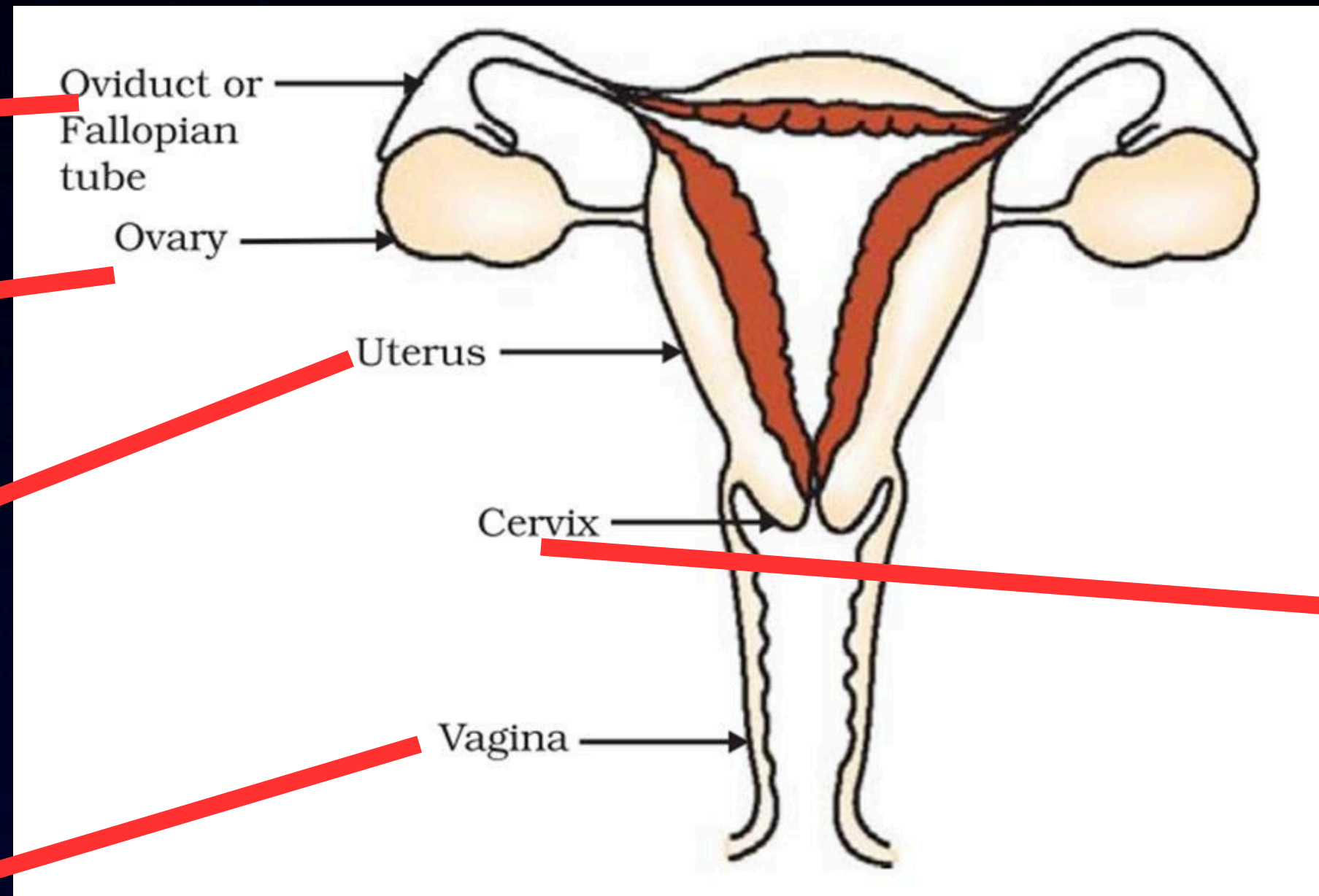
Female reproductive system

Fusion of gametes takes place

Eggs are produced here

Development of foetus takes place

Receives sperm from male partner



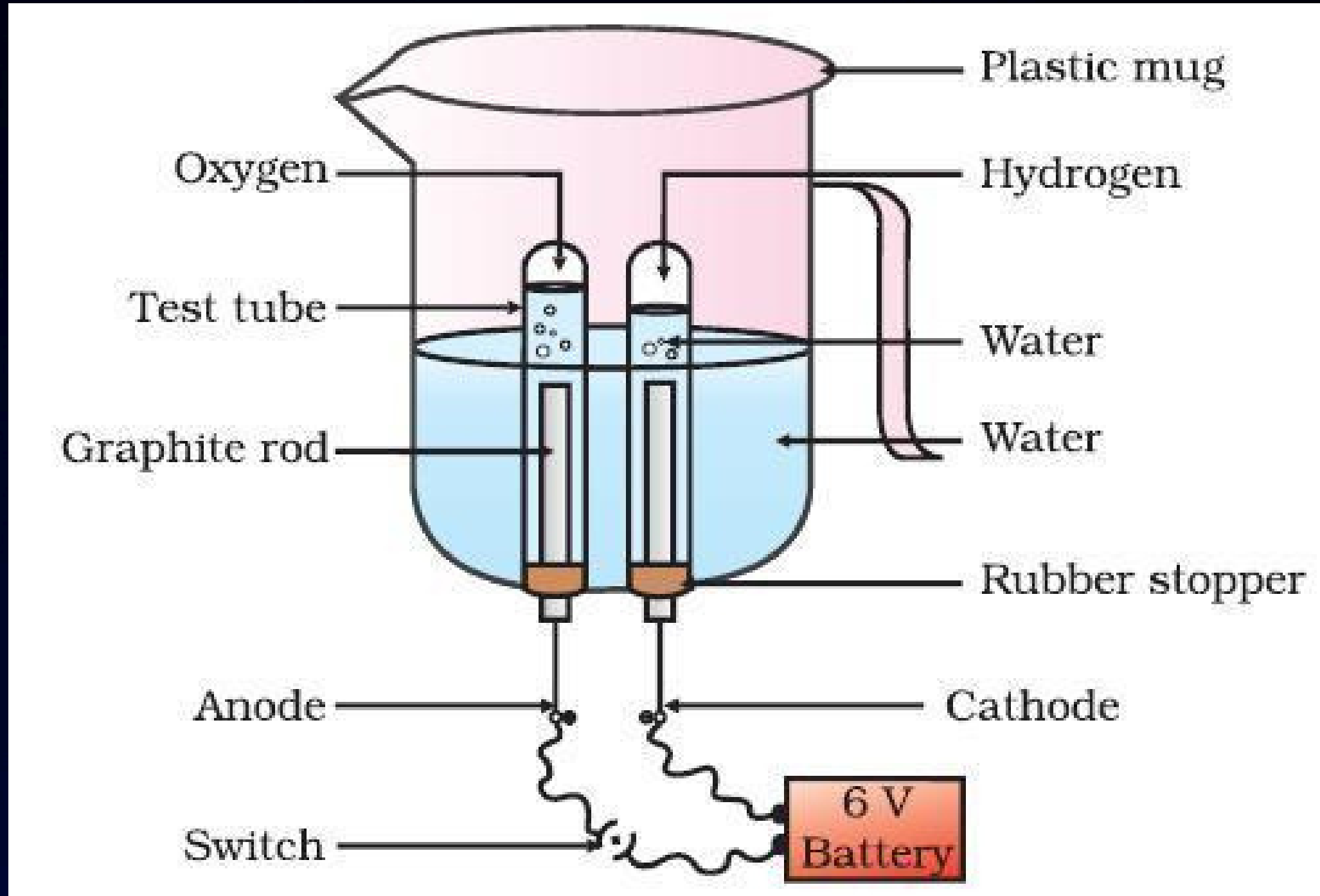
Protects the upper reproductive tract from bacteria and viruses, and helps with fertilization.



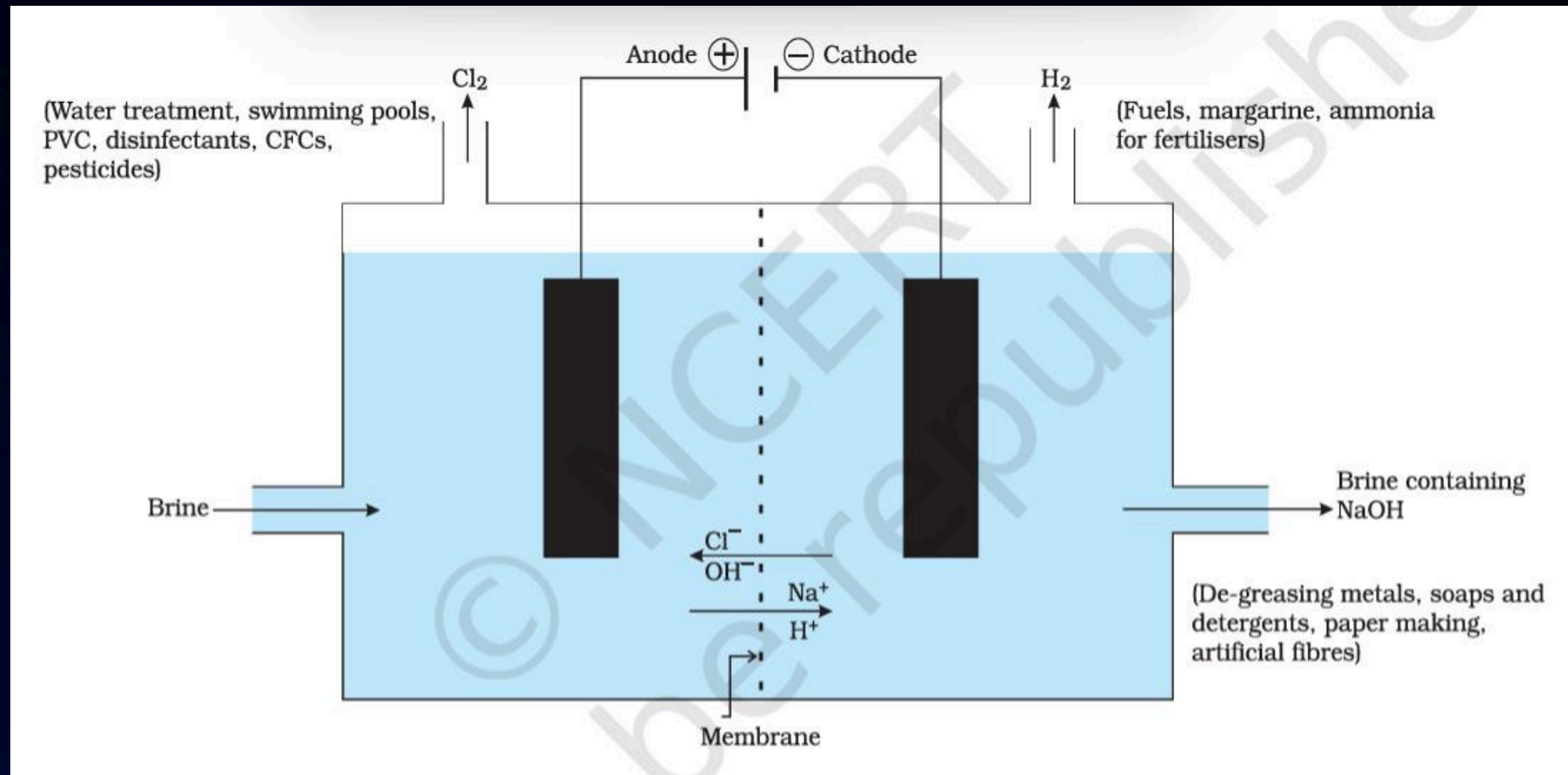
CHEMISTRY



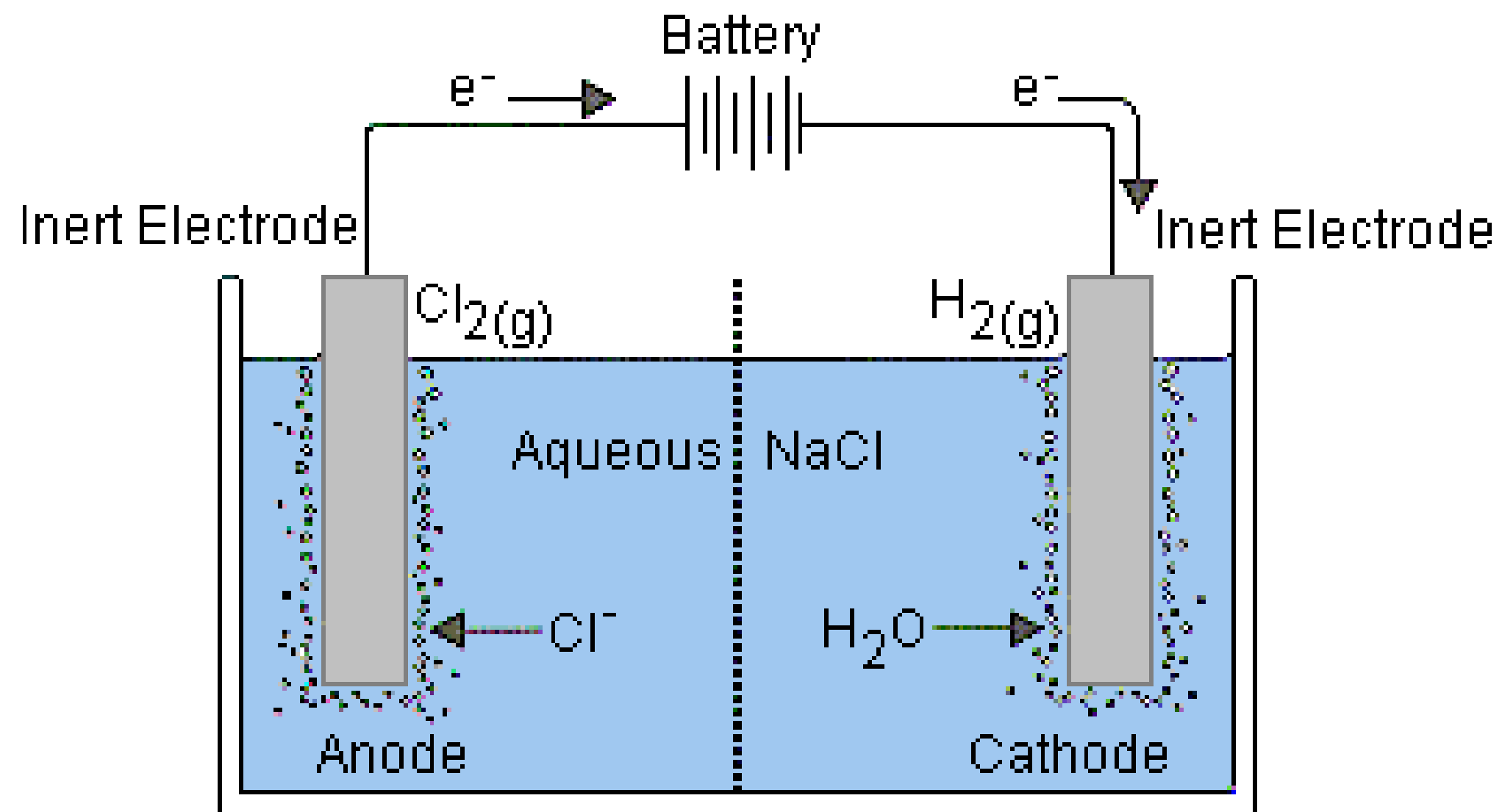
Hydrolysis of Water



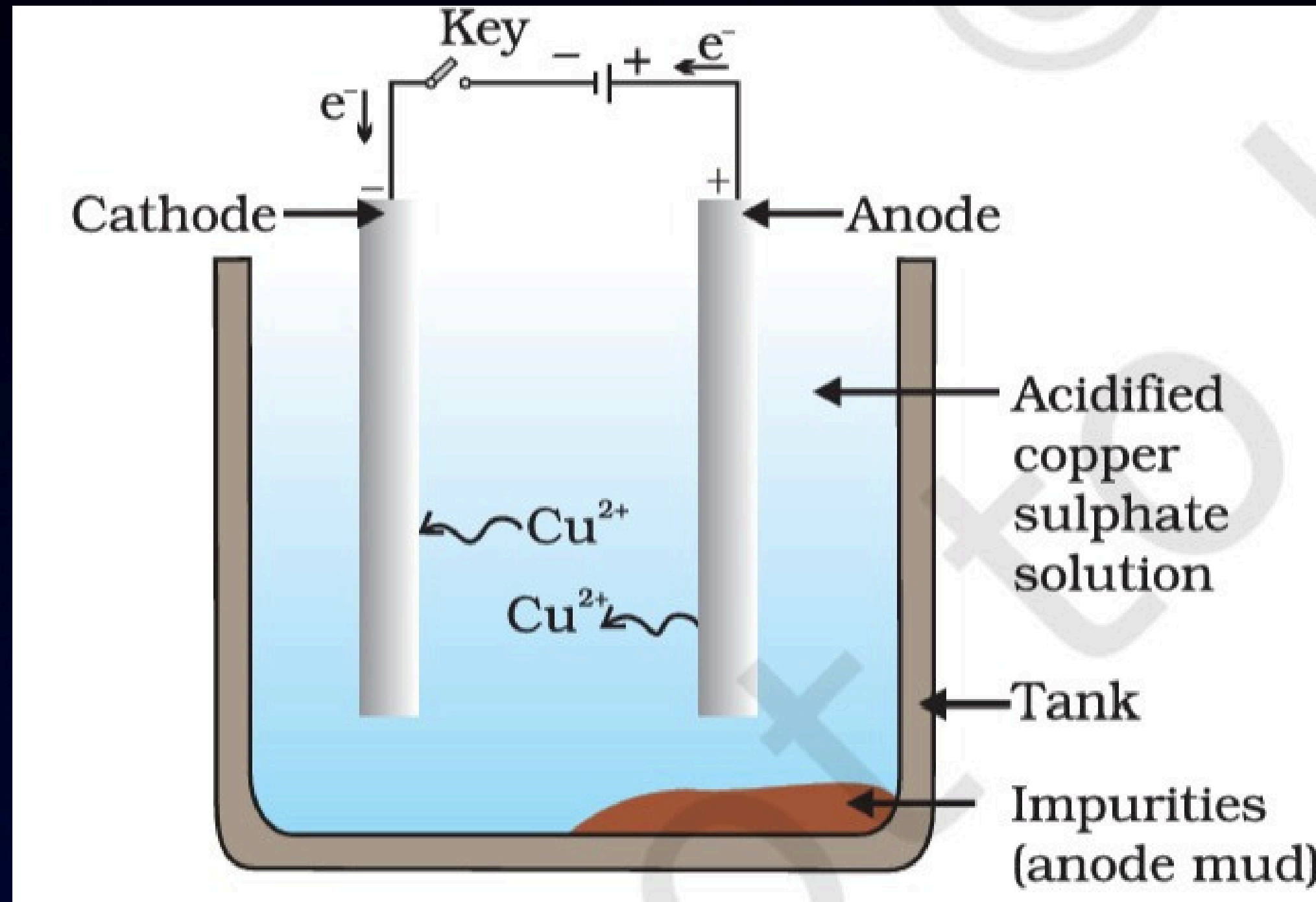
Chlor Alkali Process



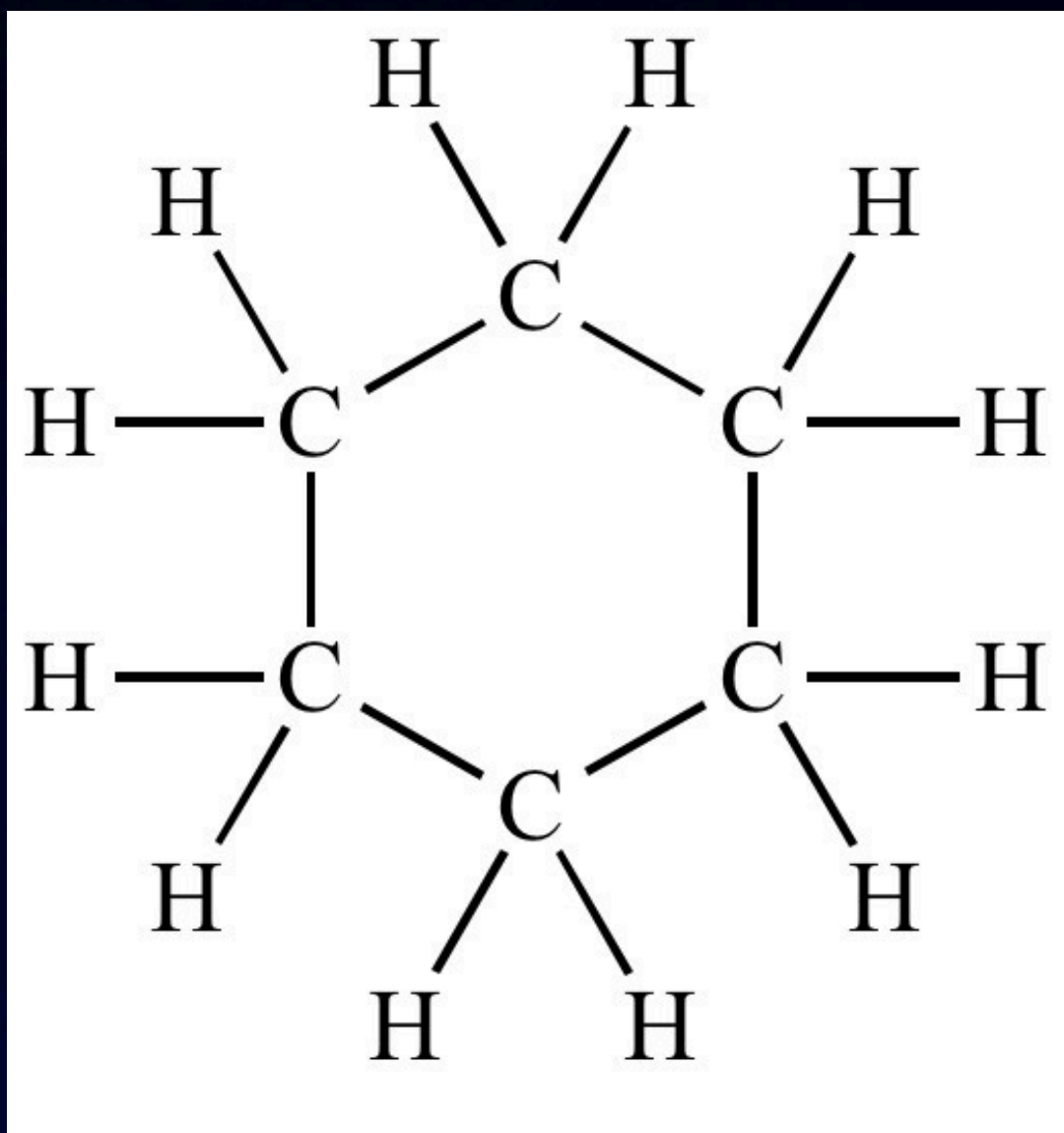
Electrolytic Reduction of NaCl(Molten)



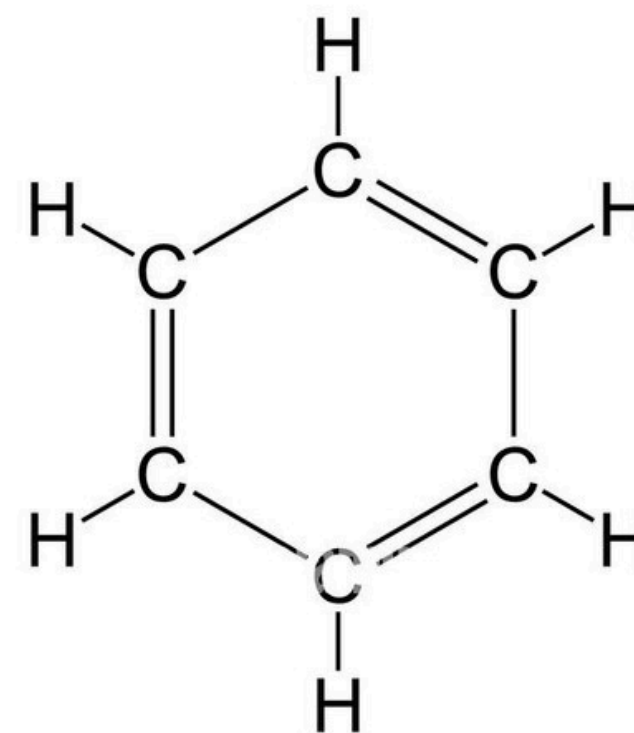
Electrolytic Refining of Copper



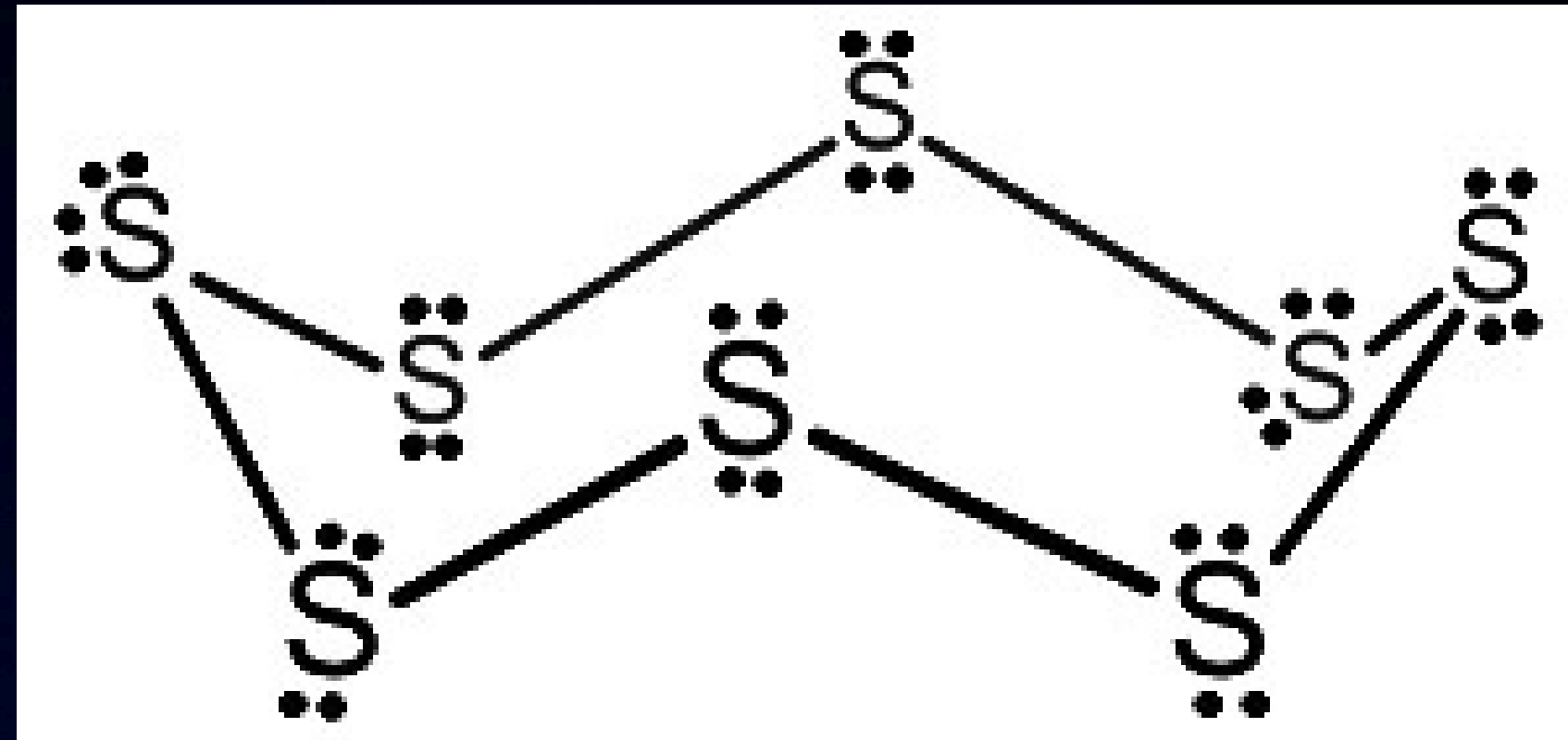
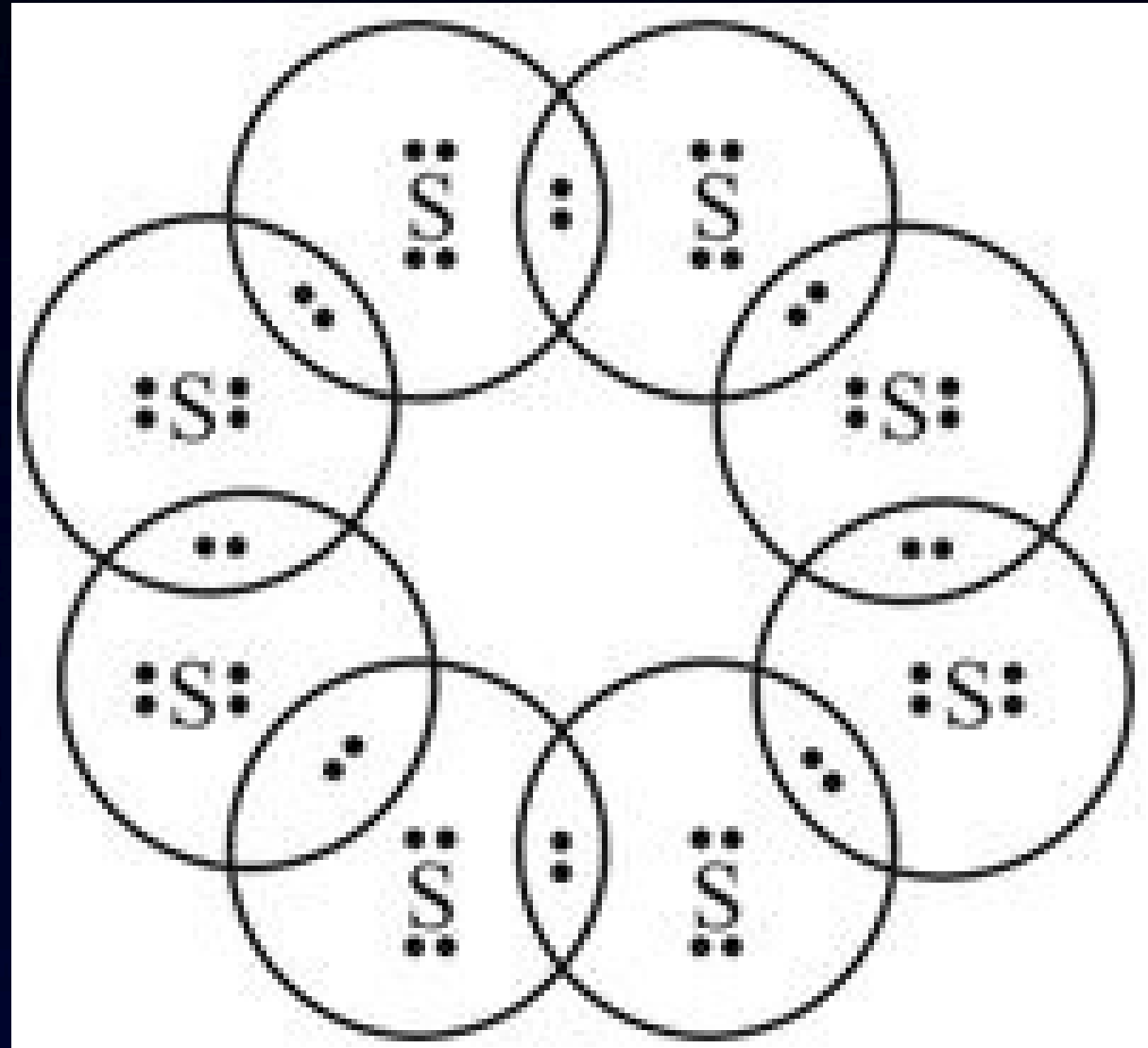
Cyclohexane



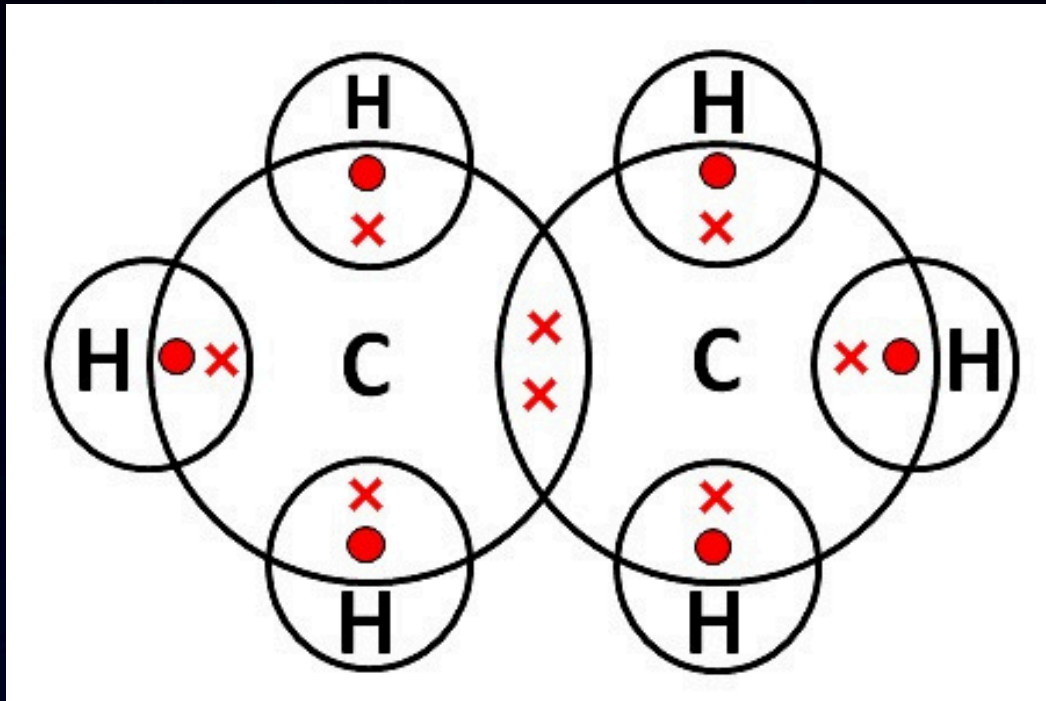
Benzene



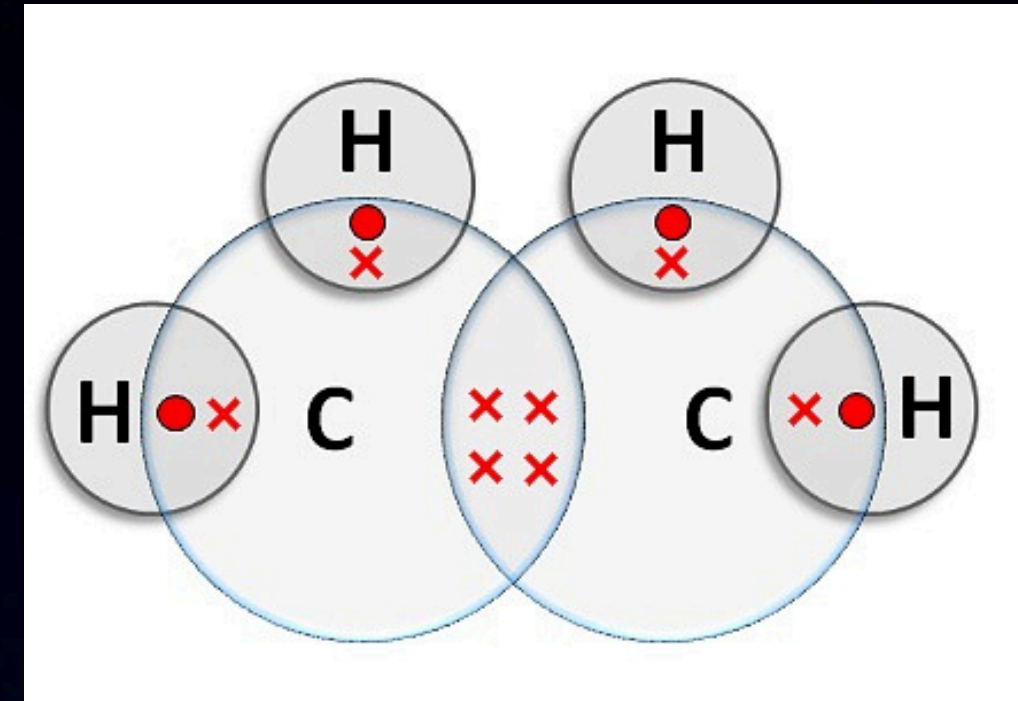
S8 molecule Structure



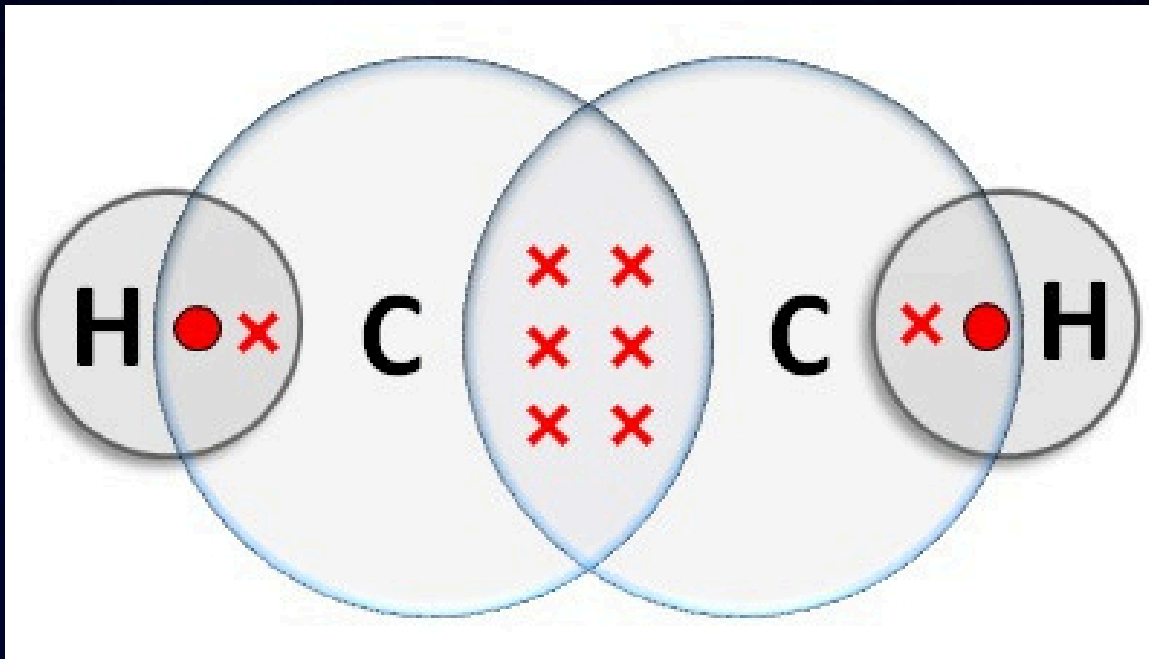
Ethane



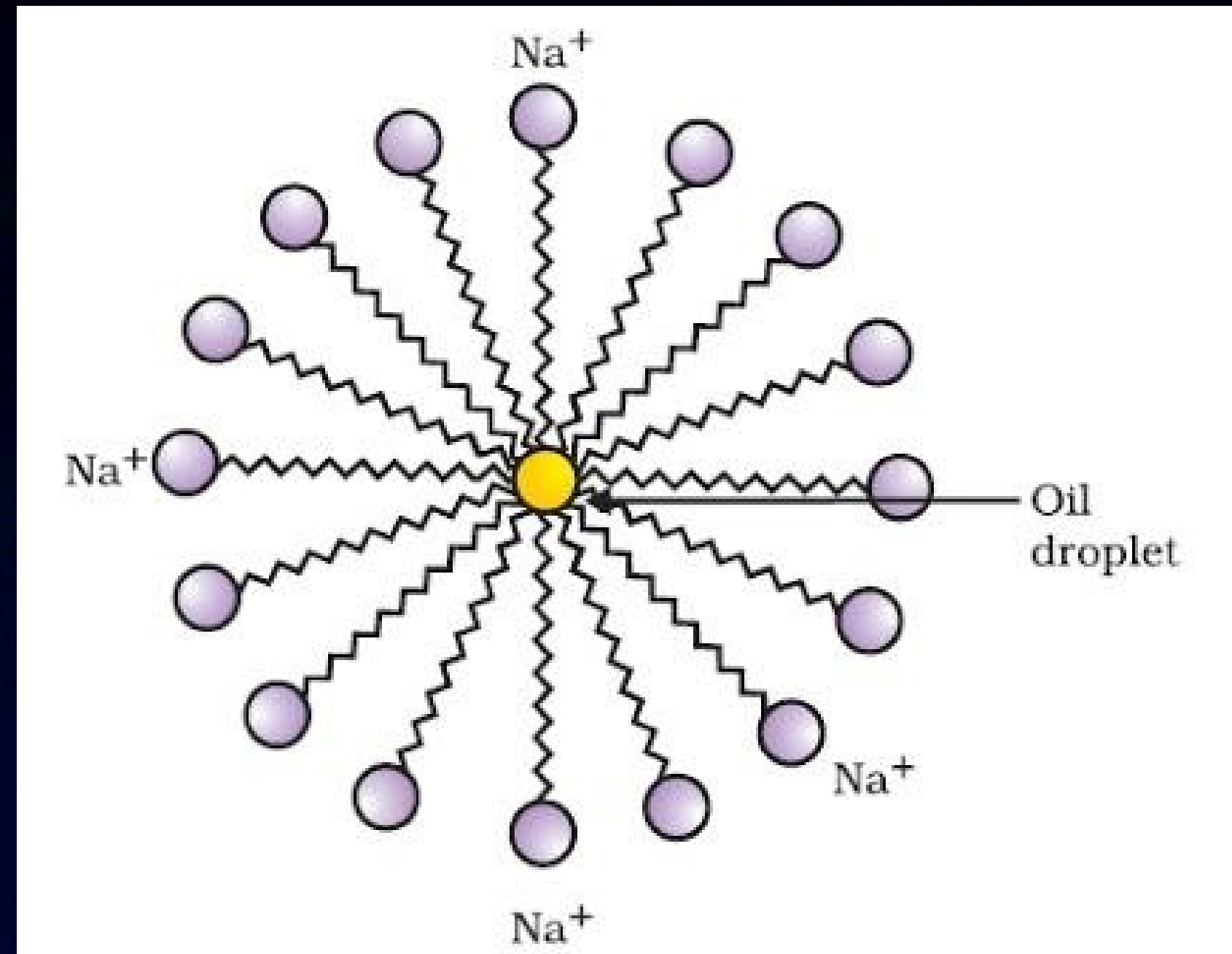
Ethene



Ethyne



Micelle Formation





PHYSICS



Image formation by Concave Mirror

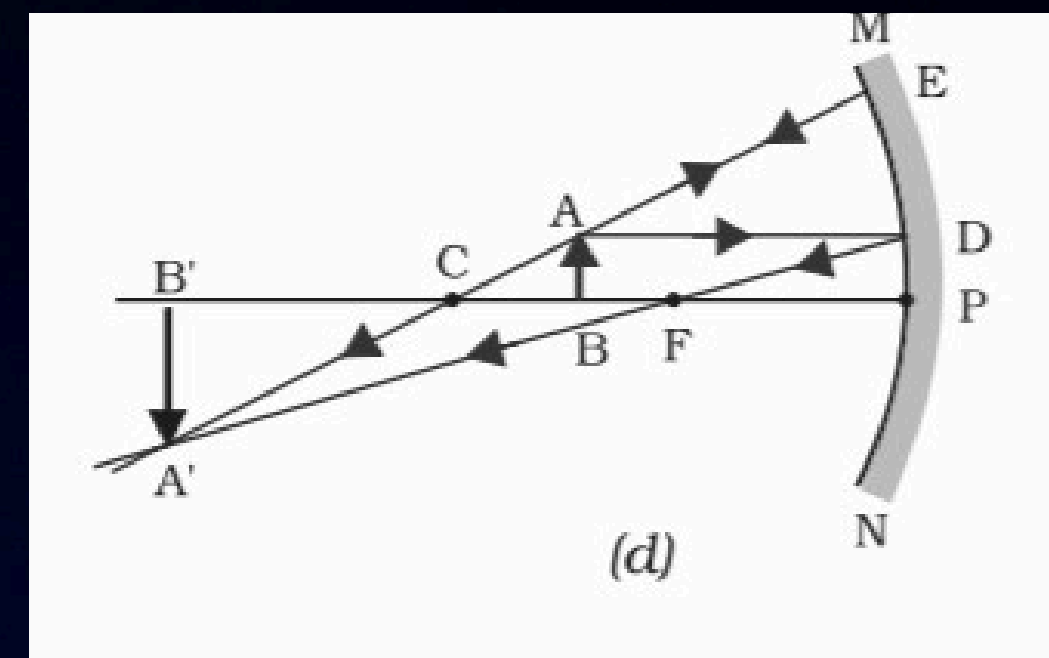
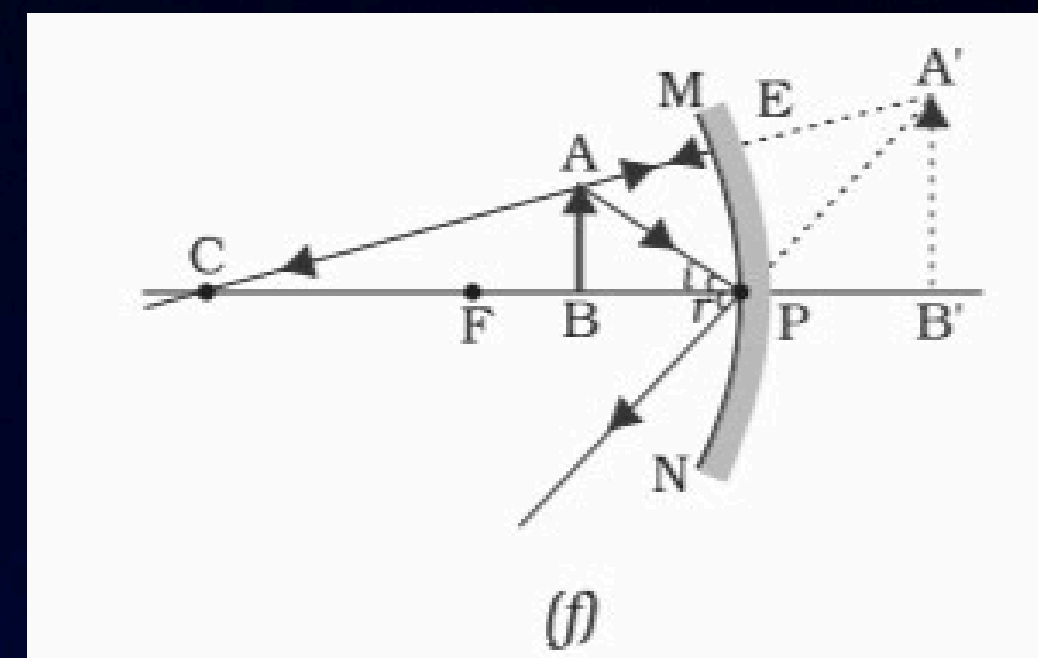
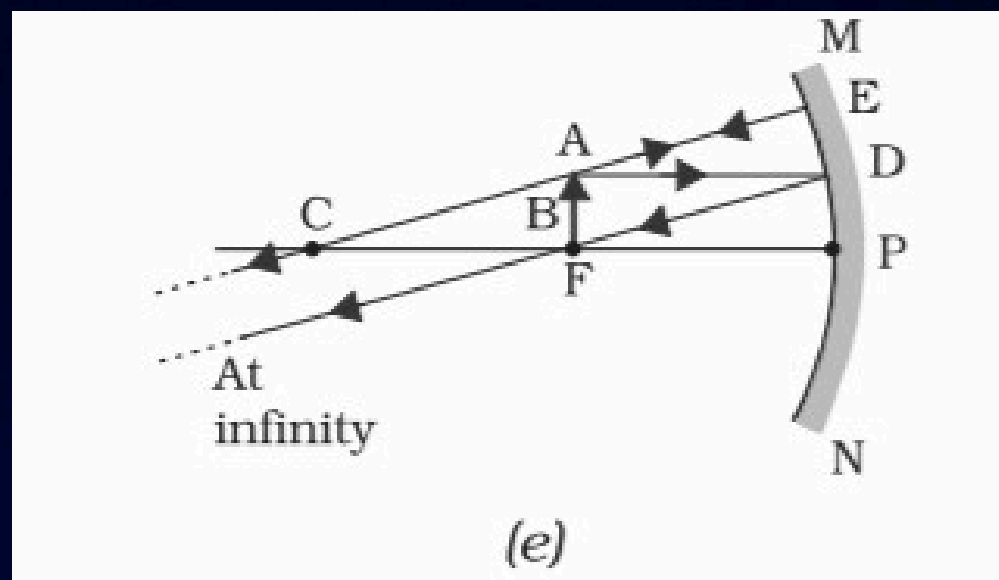
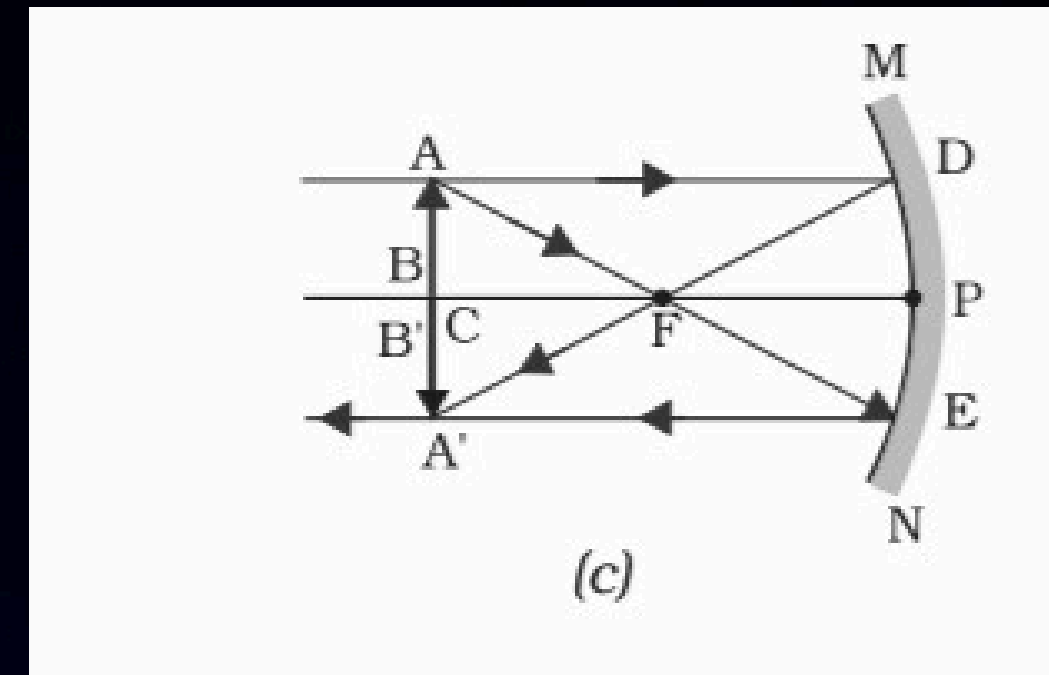
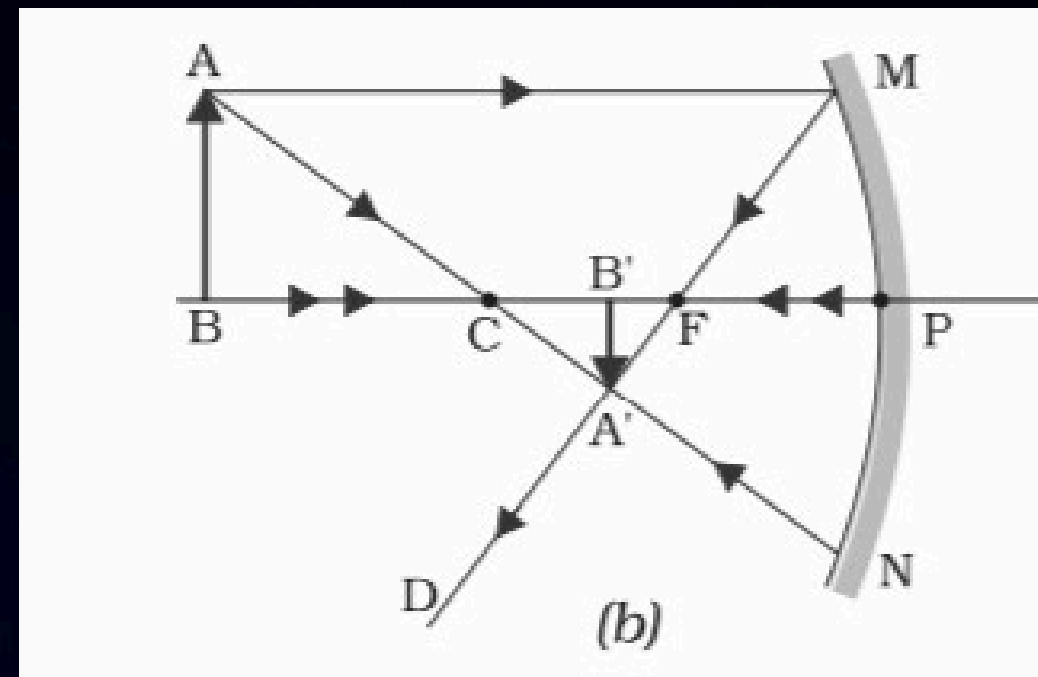
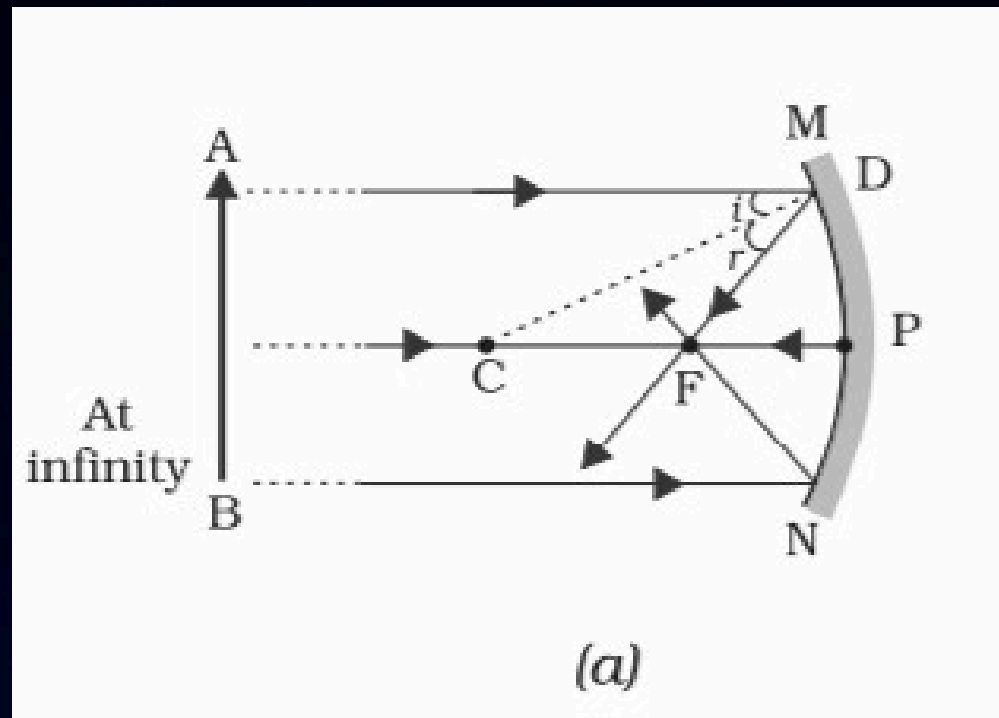
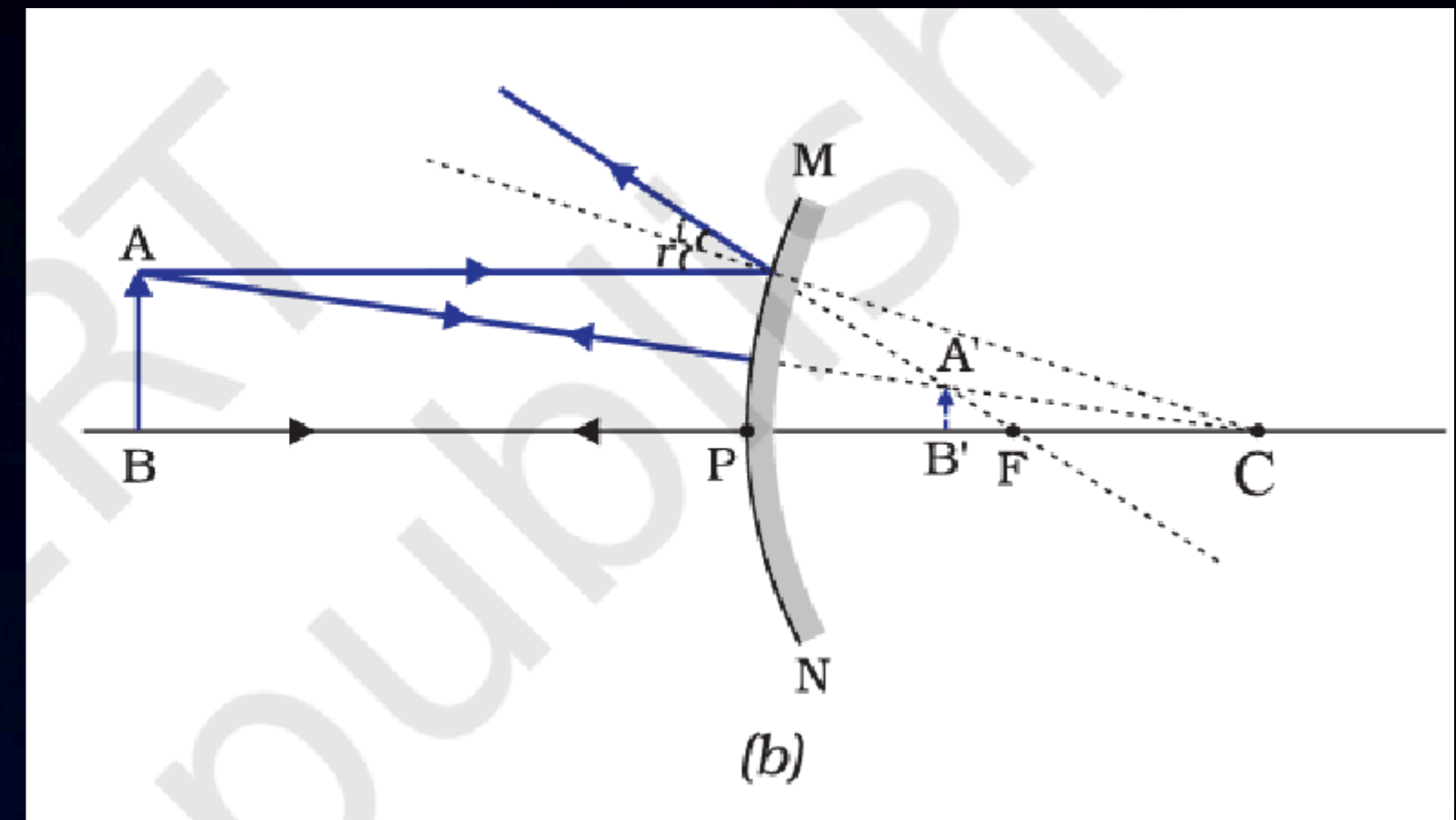
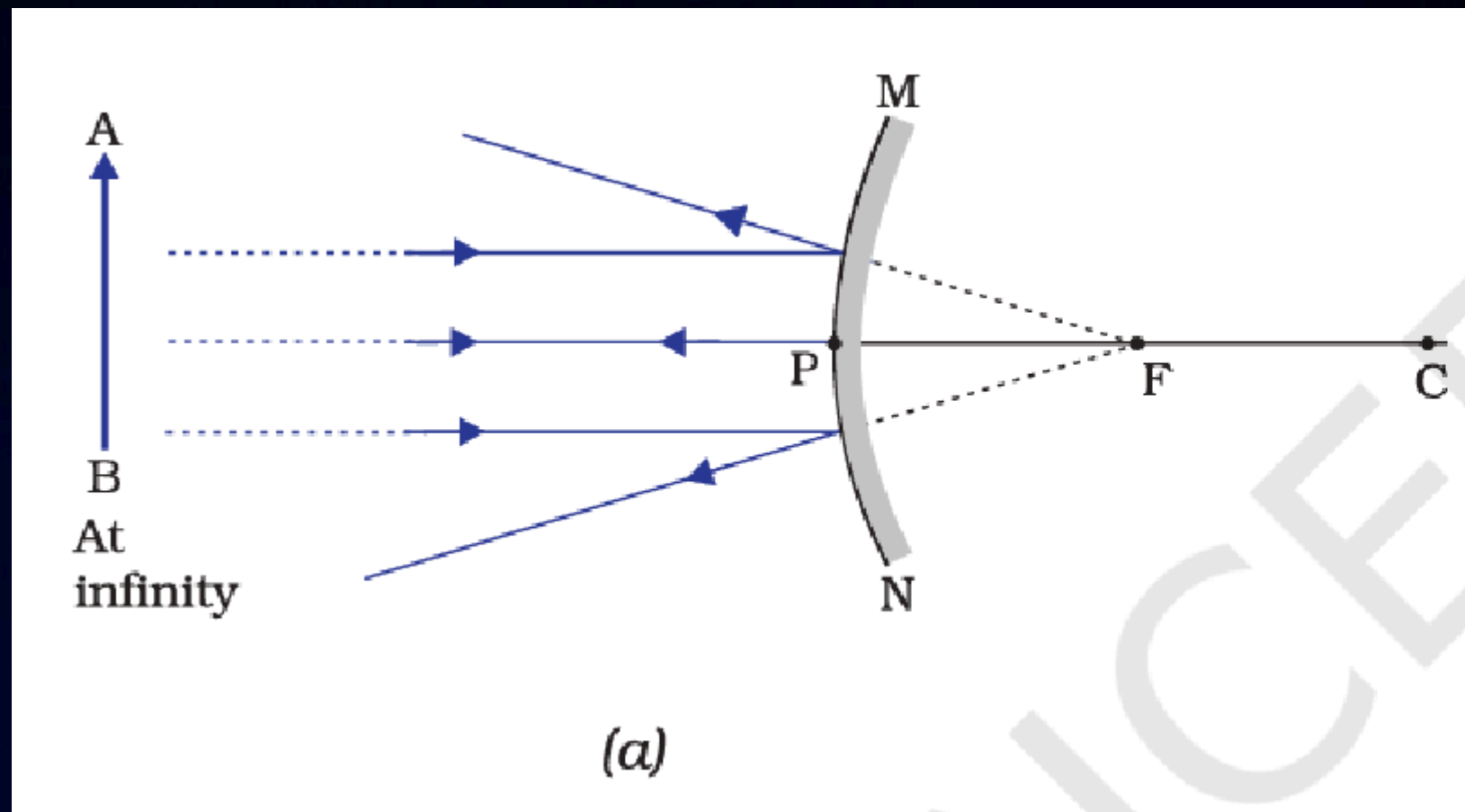


Image formation by Convex Mirror



Refraction of Light through a rectangular glass slab

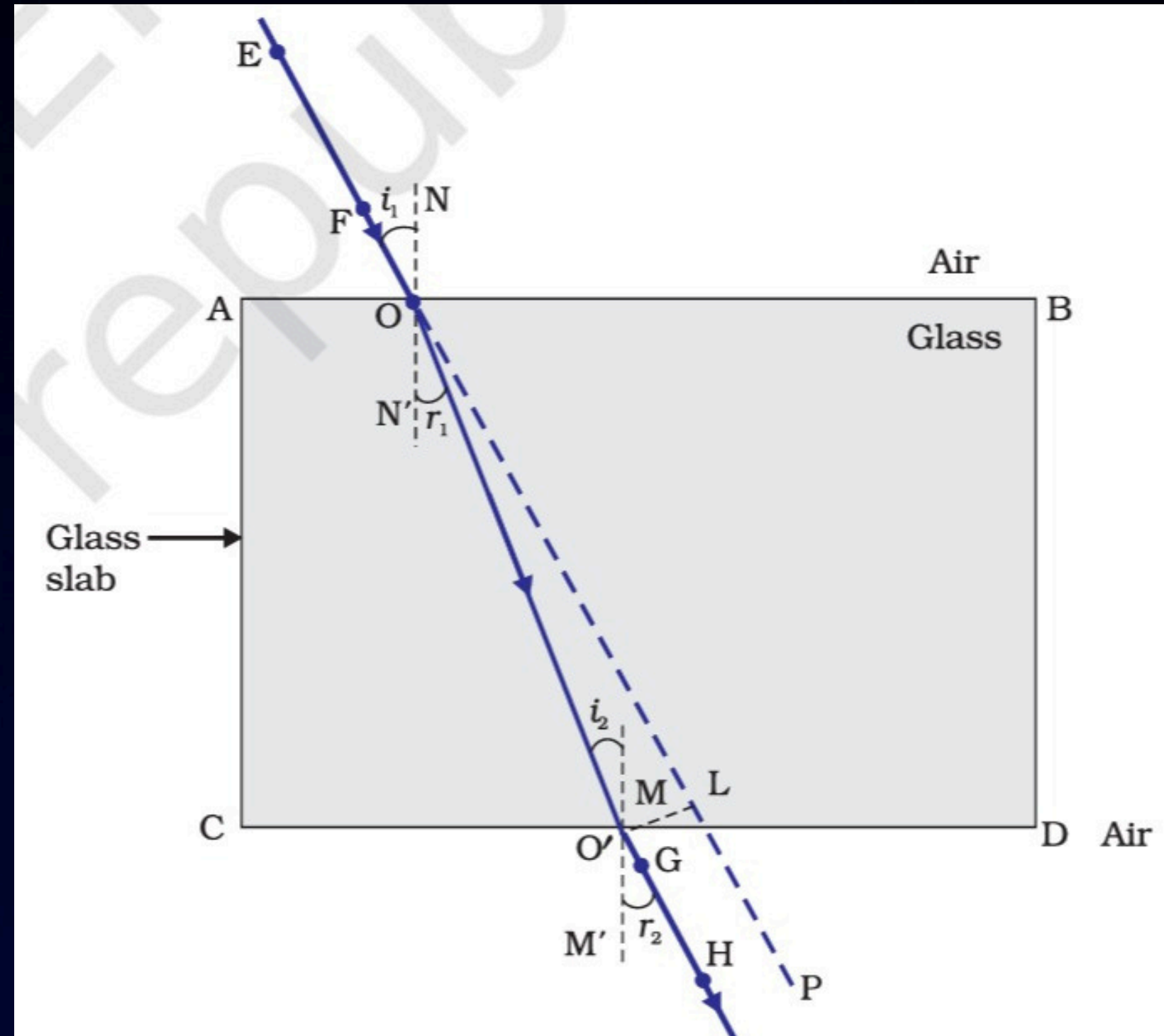


Image formation by Concave Lens

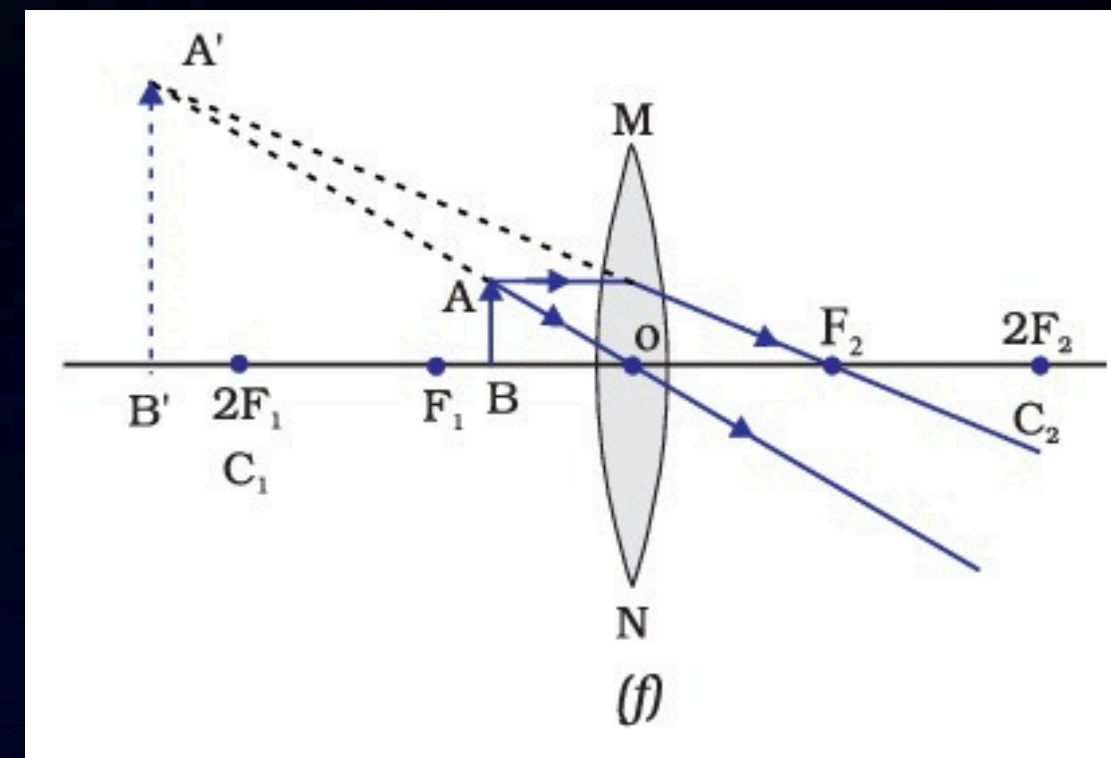
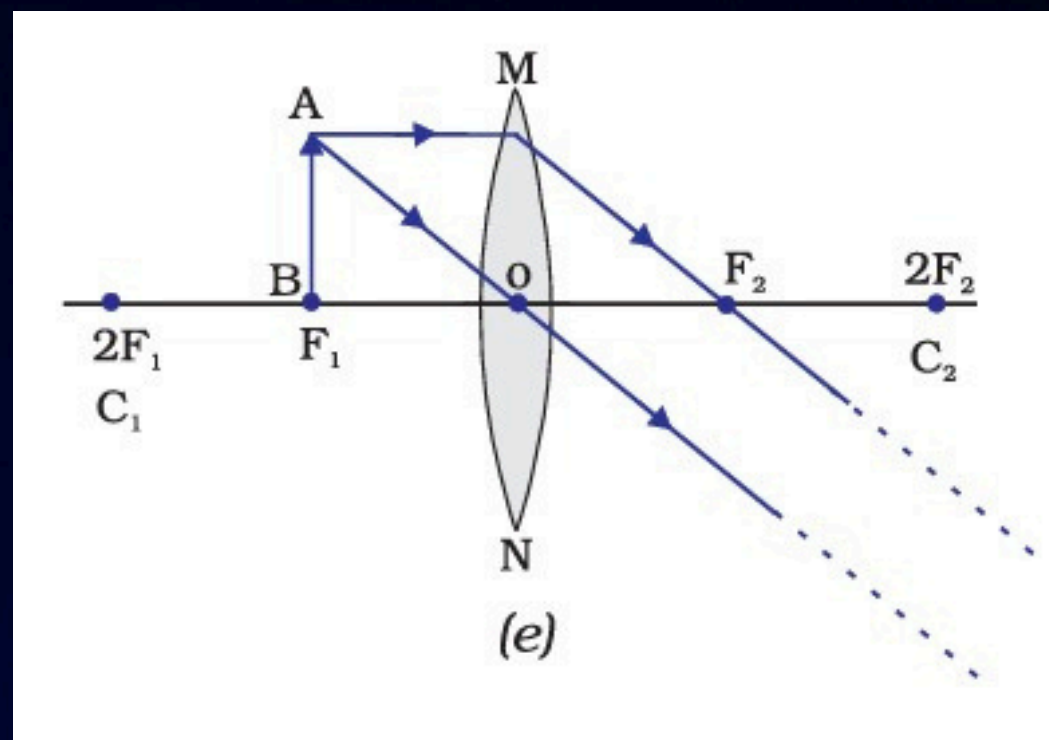
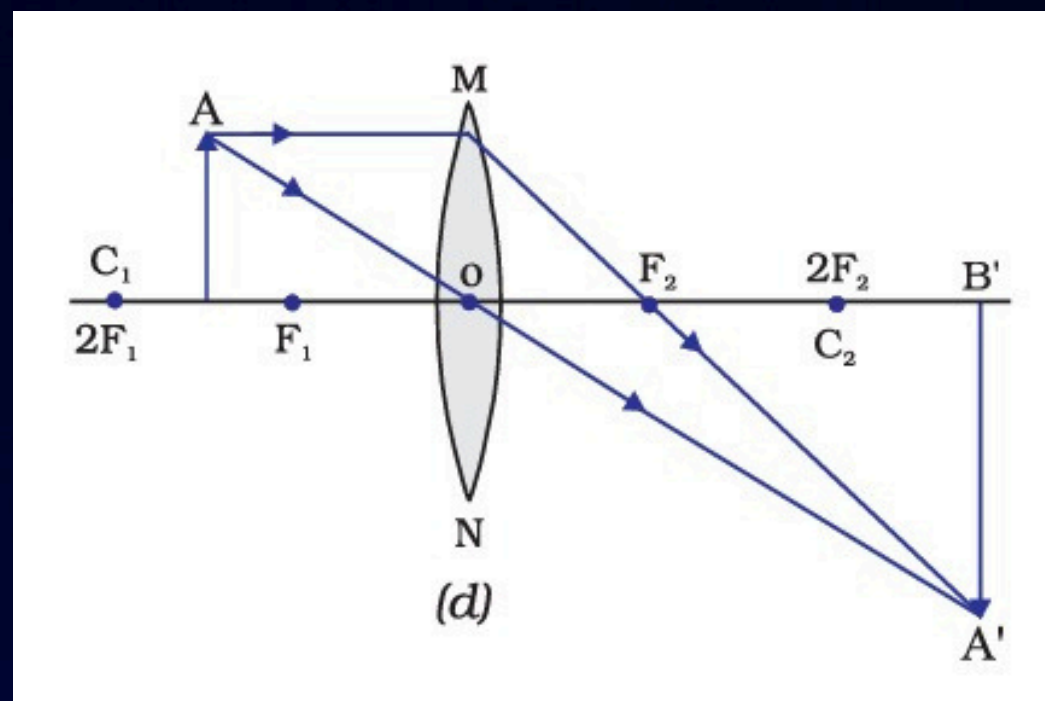
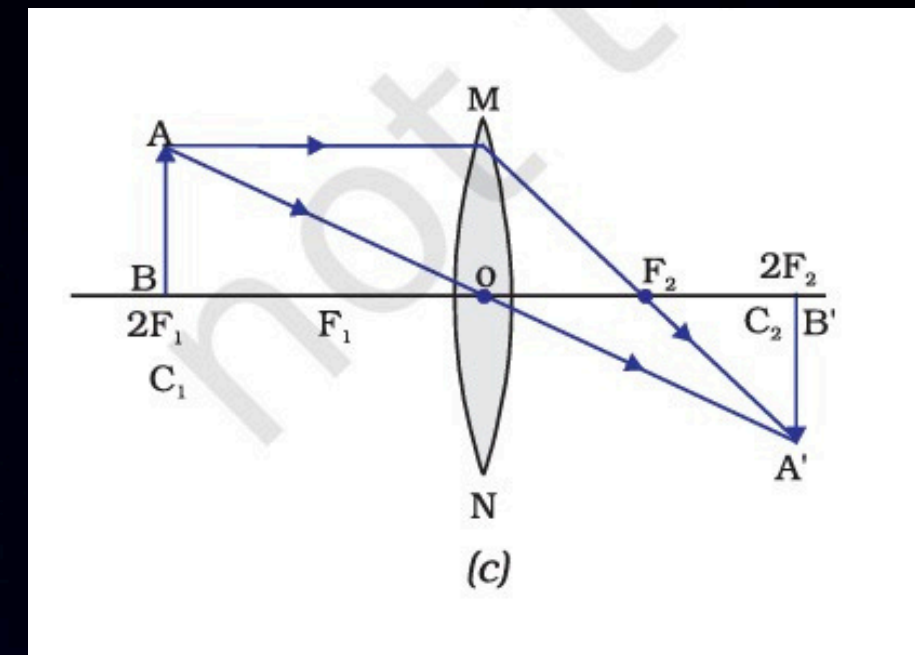
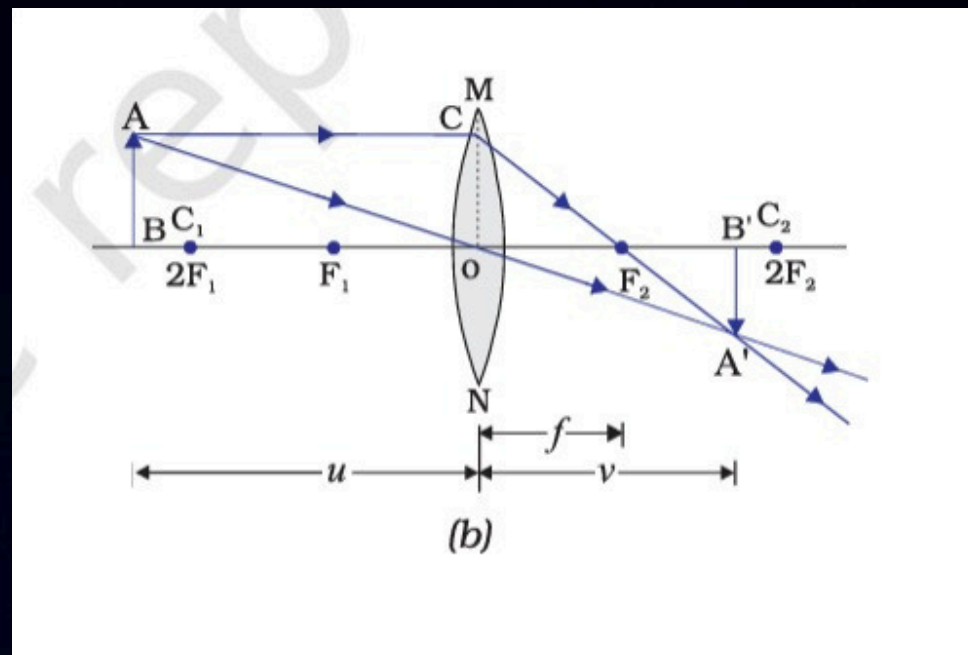
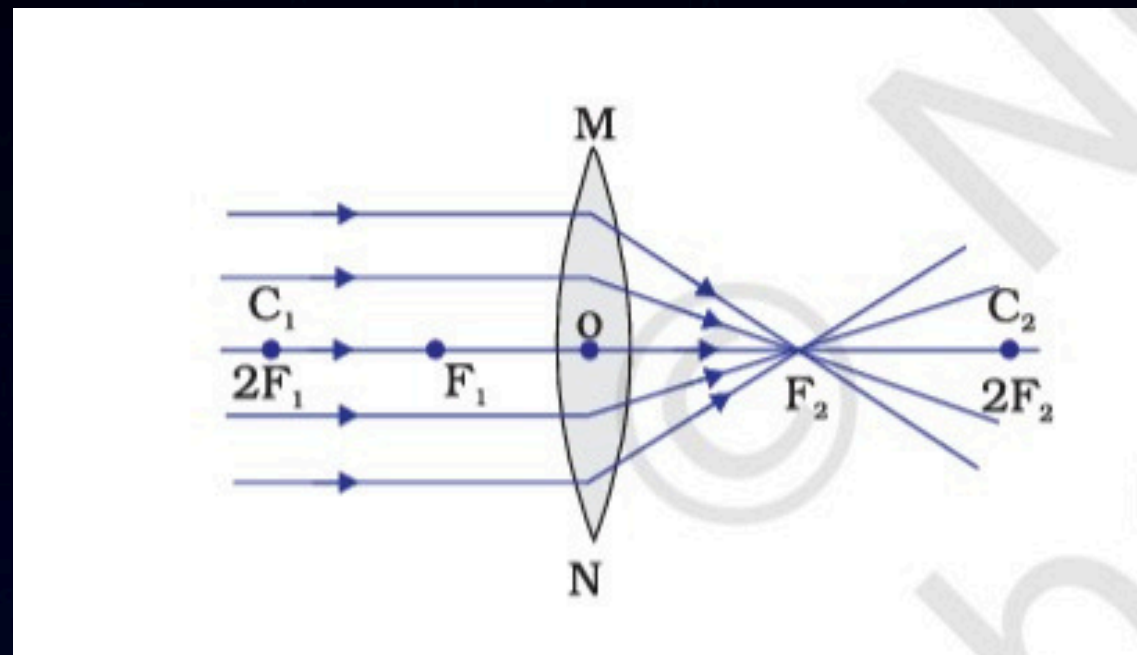
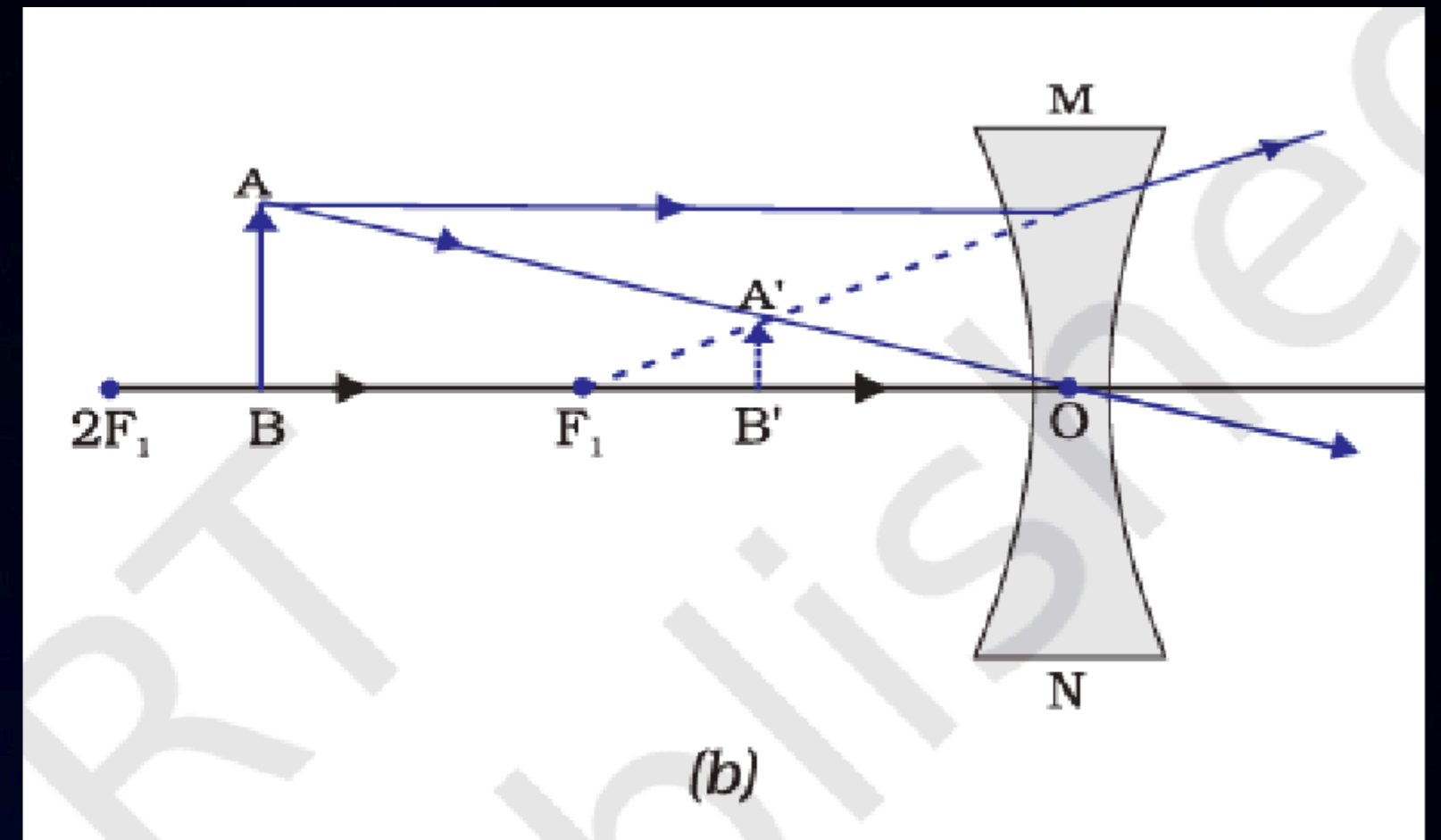
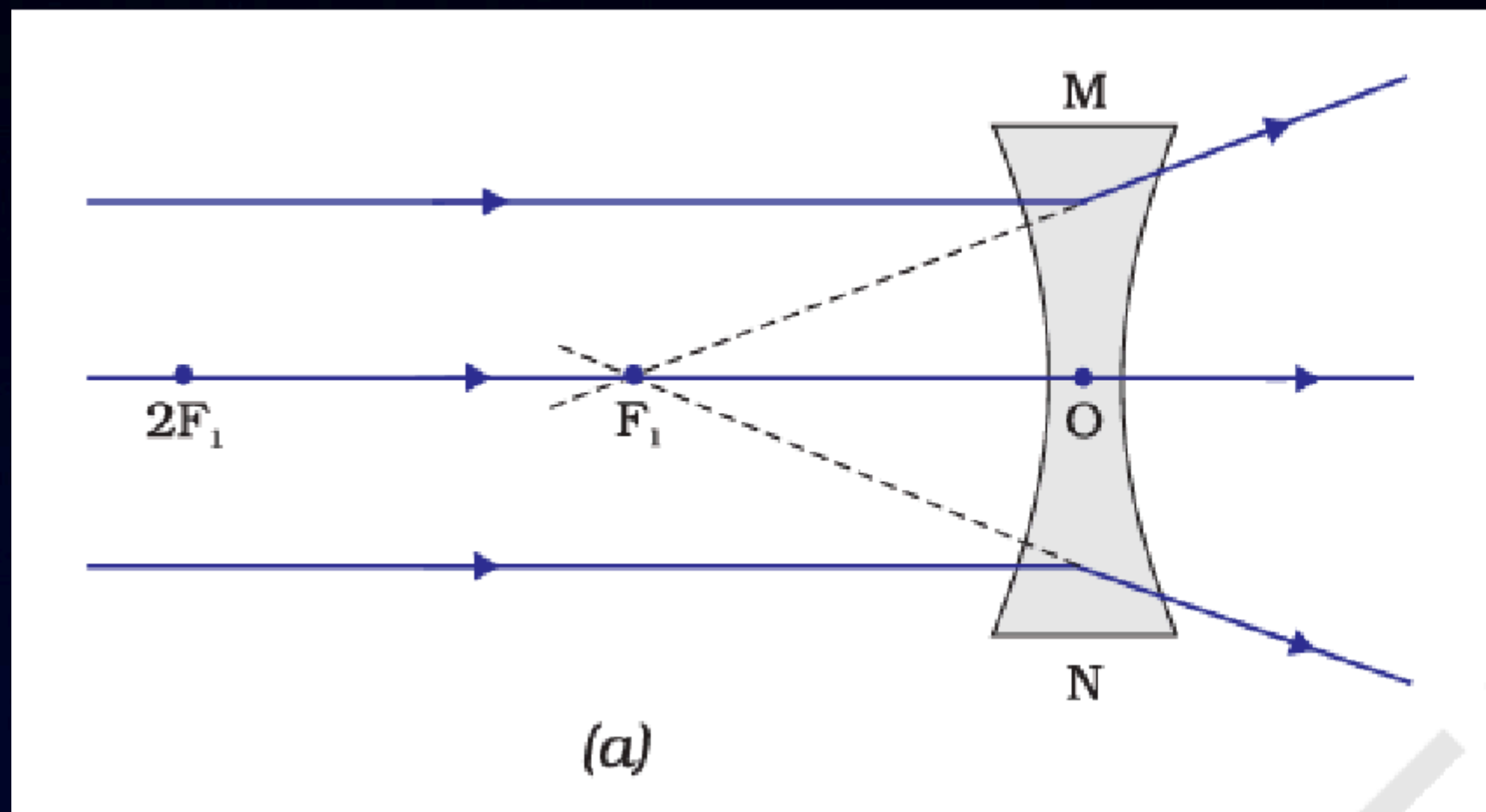
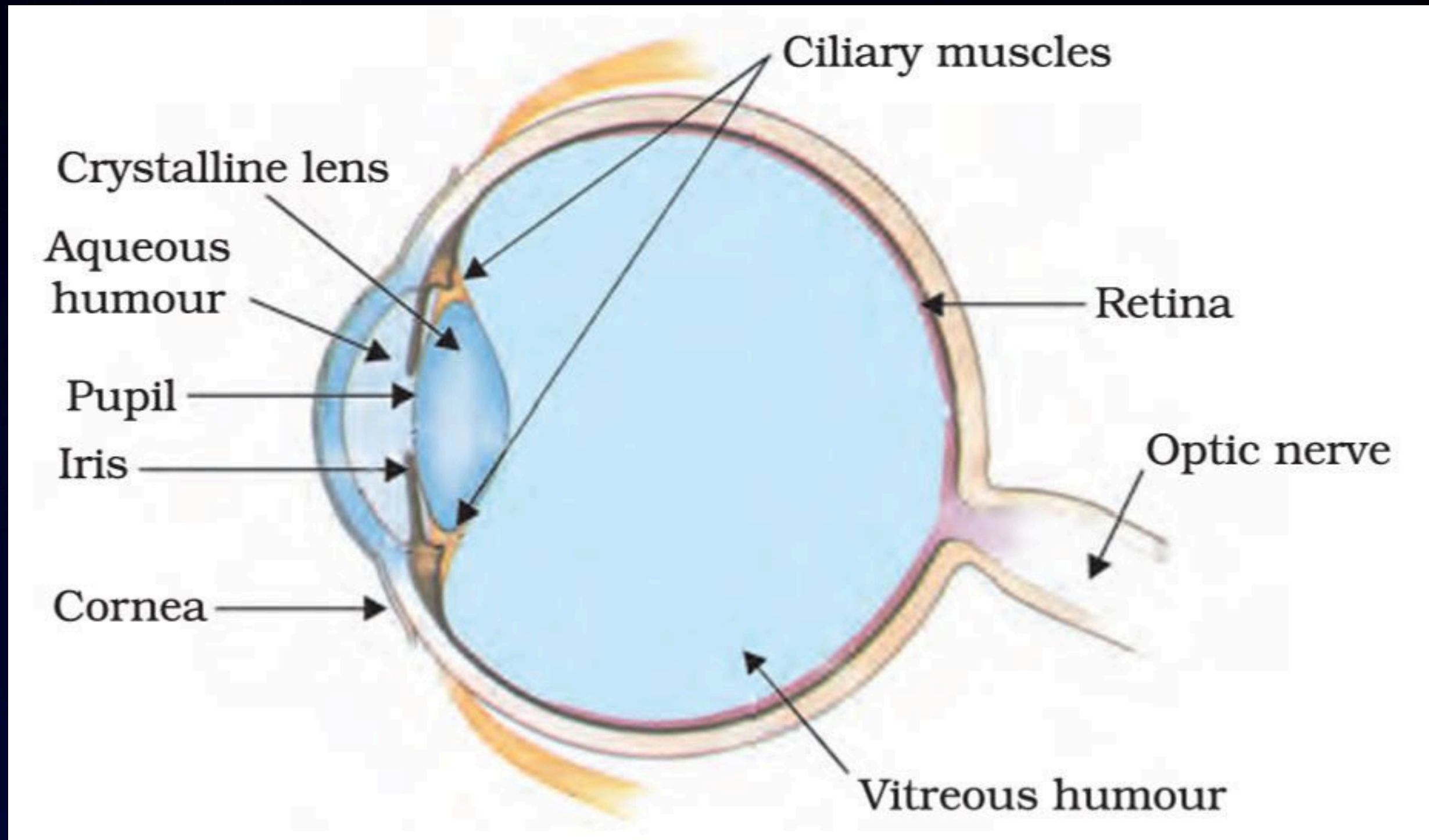


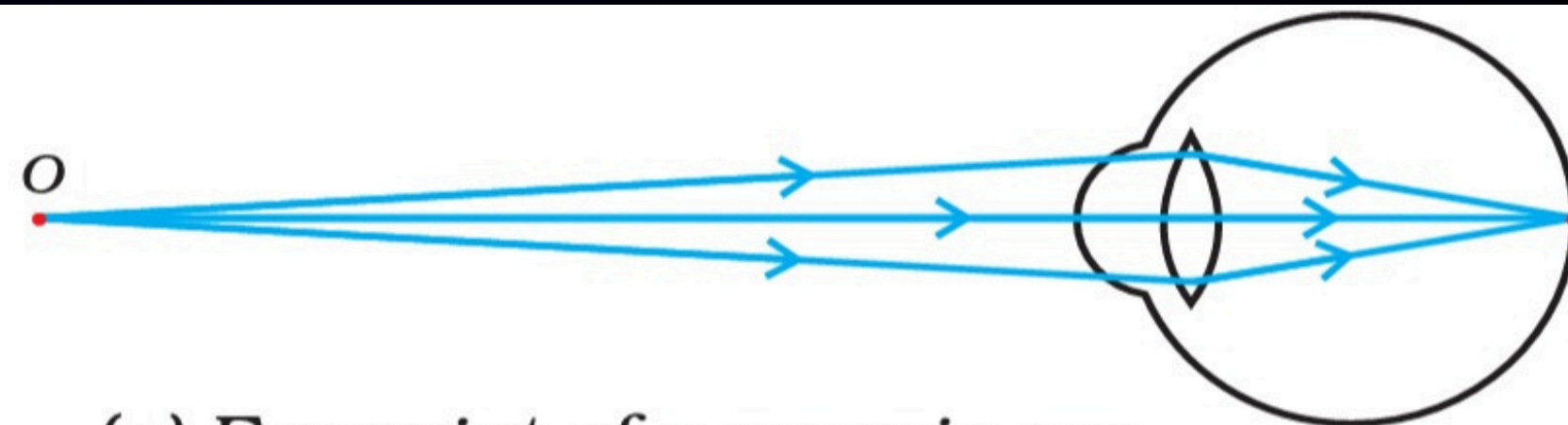
Image formation by Convex Lens



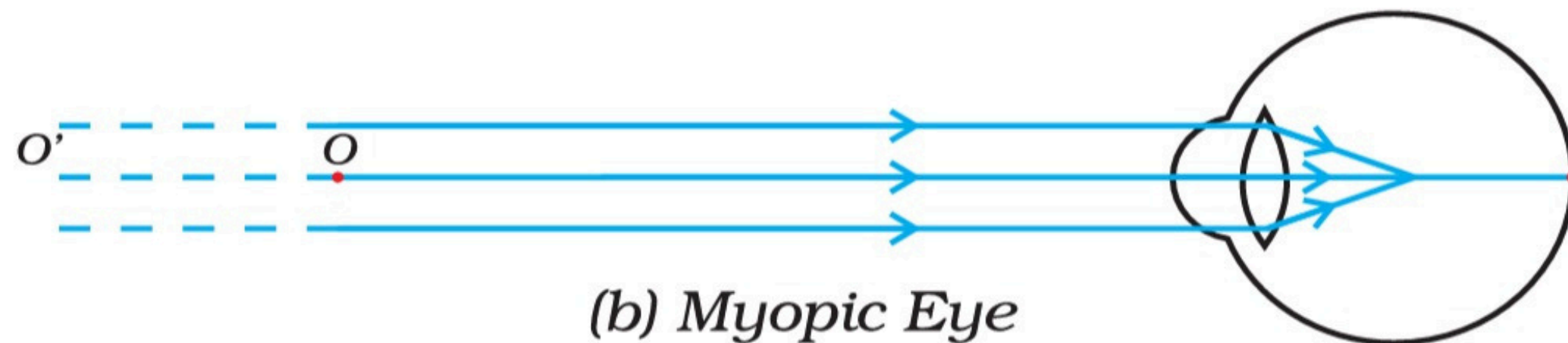
Human Eye



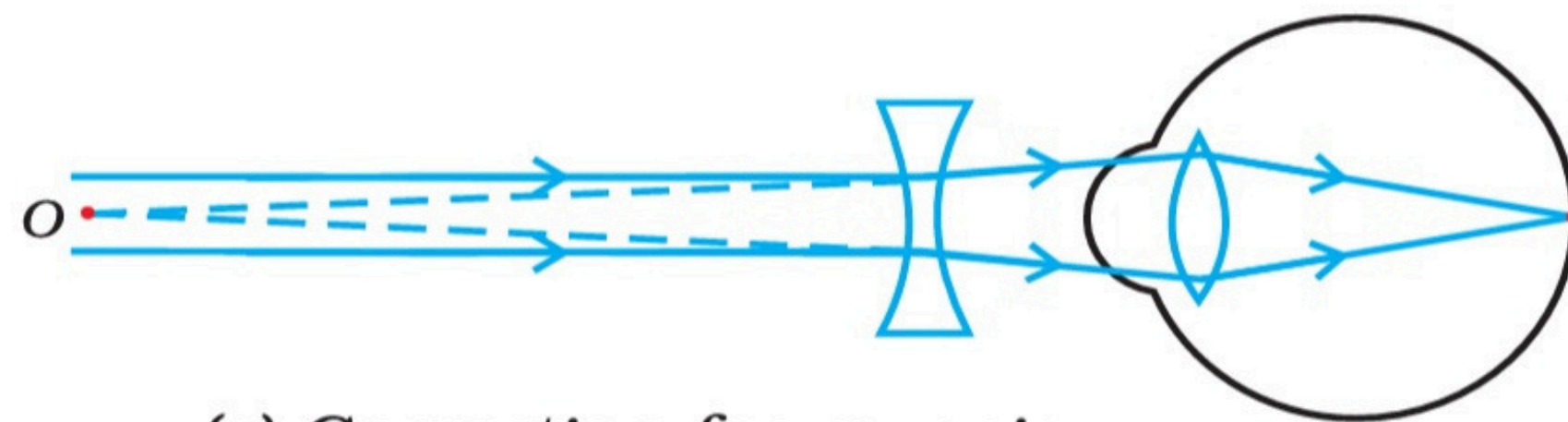
Myopia



(a) Far point of a myopic eye

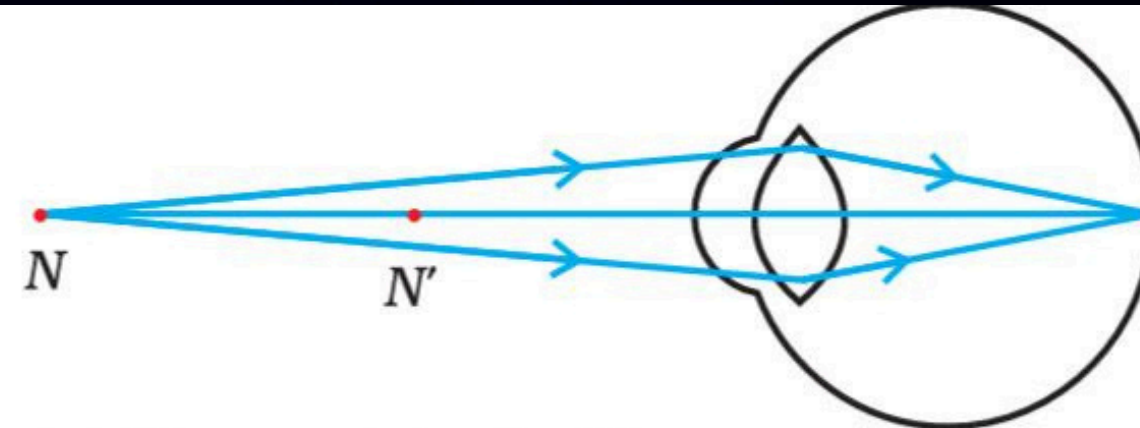


(b) Myopic Eye

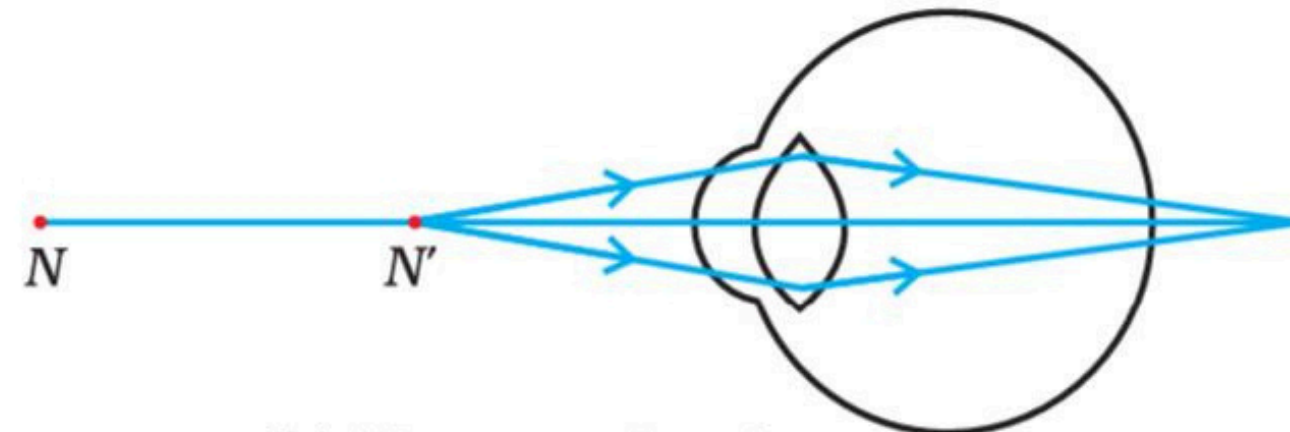


(c) Correction for myopia

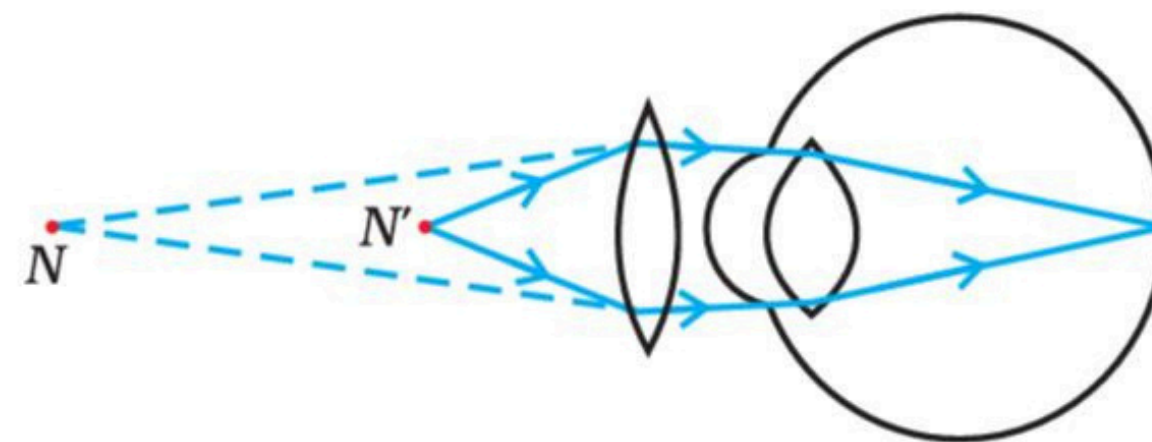
Hypermetropia



(a) Near point of a Hypermetropic eye

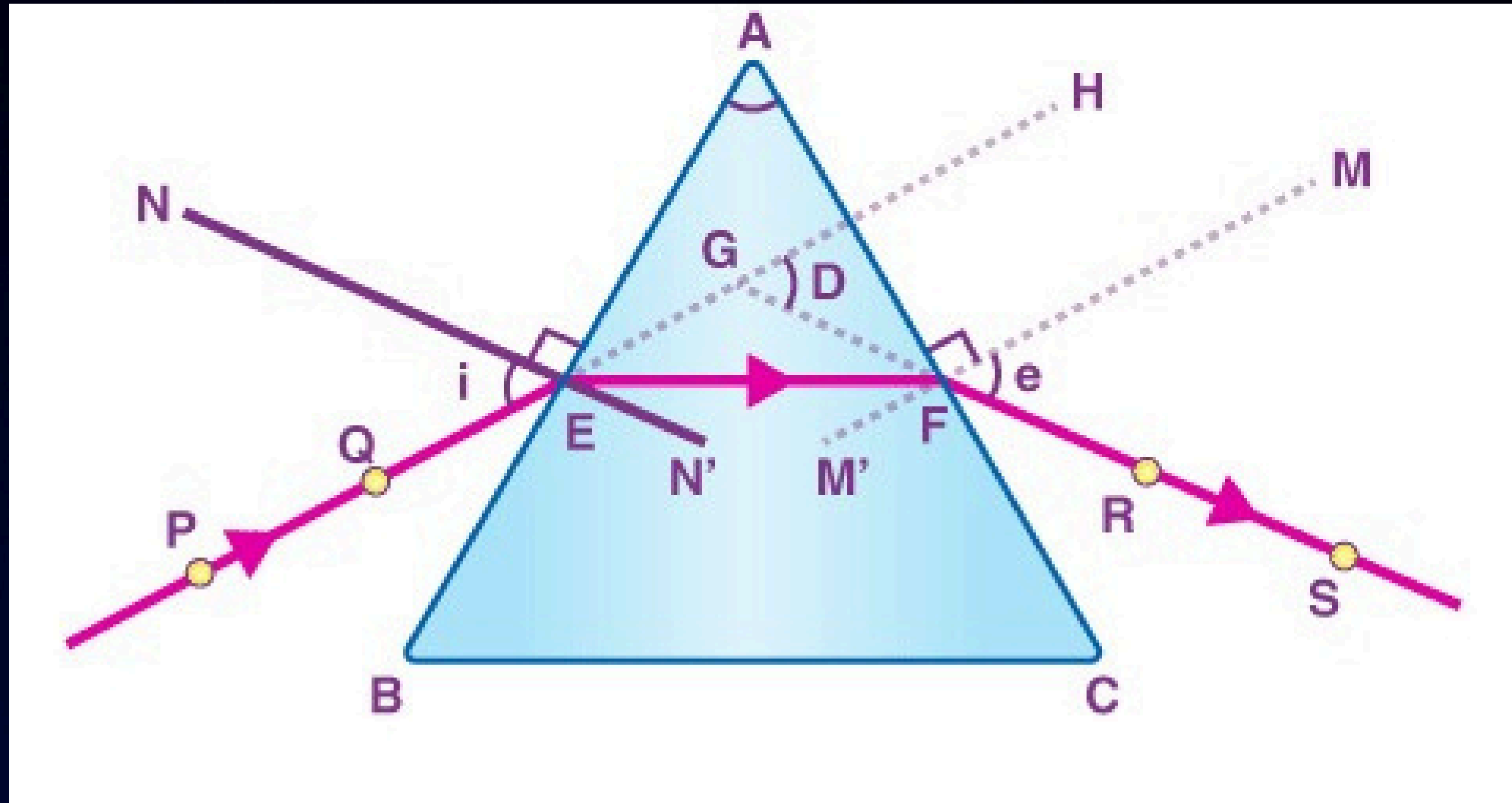


(b) Hypermetropic eye

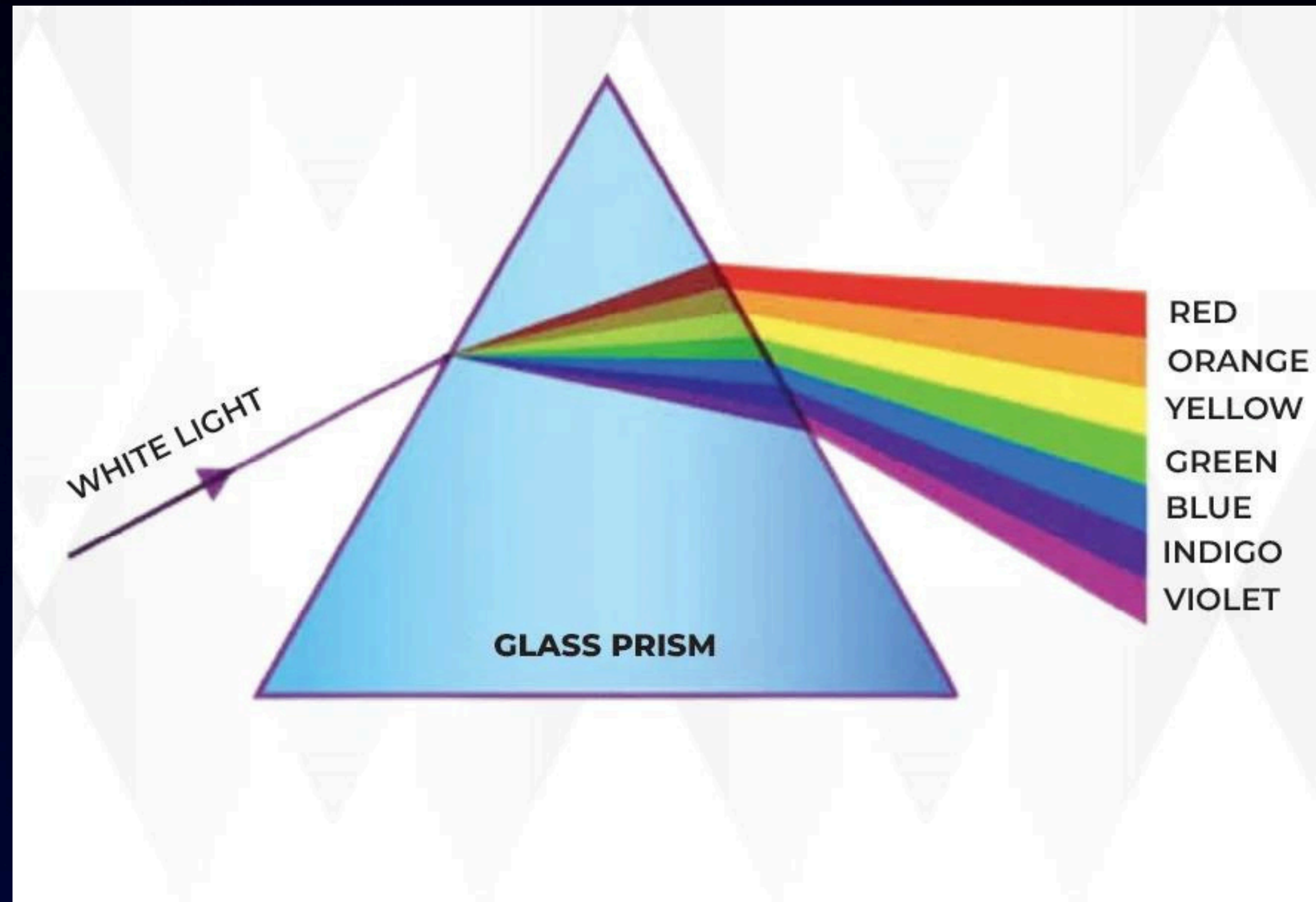


(c) Correction for Hypermetropic eye

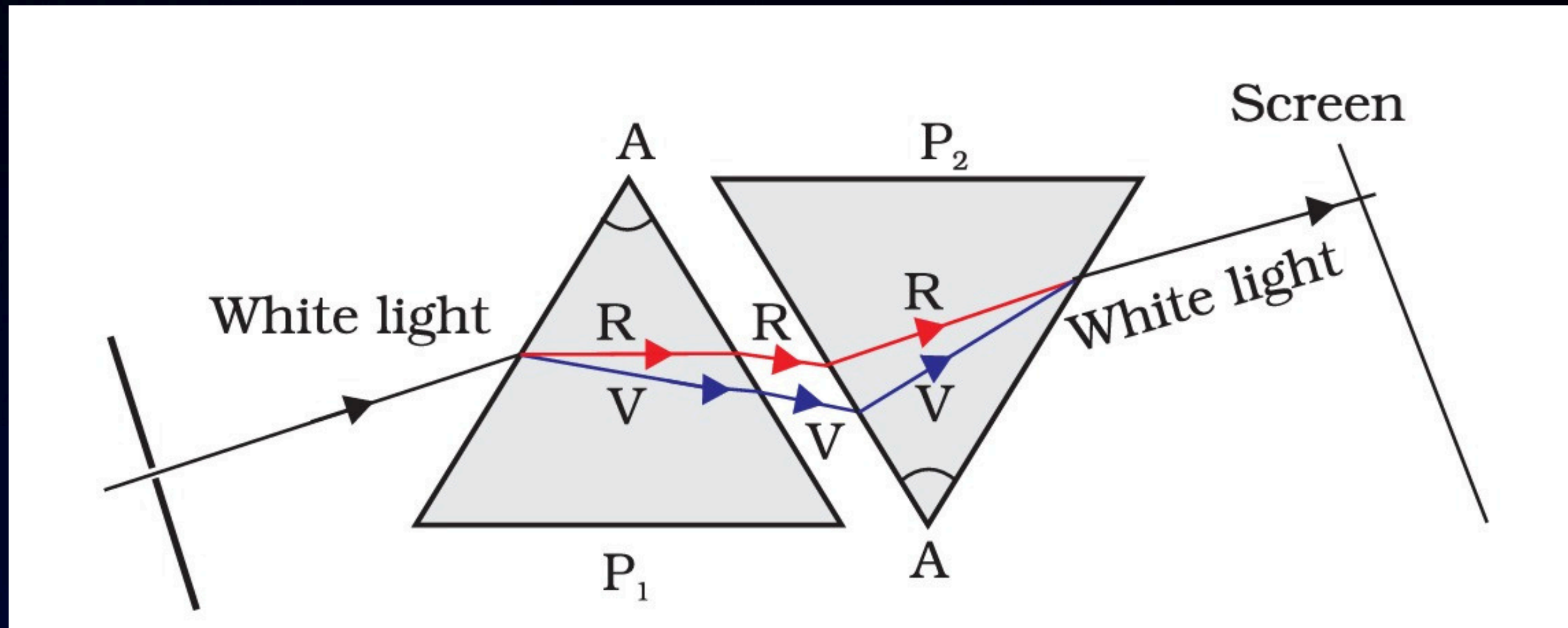
Refraction of light through a glass prism



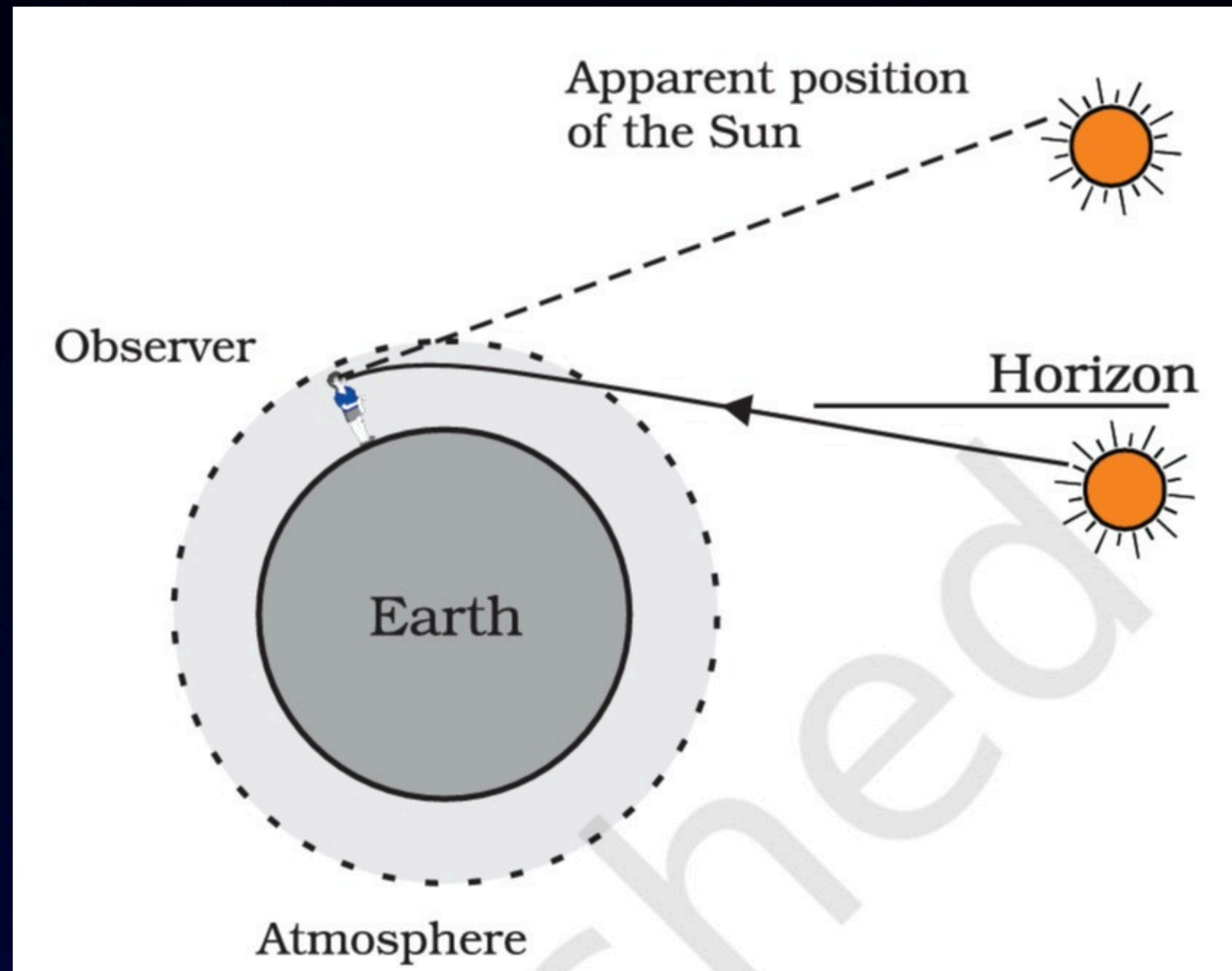
Dispersion of white light by the glass prism



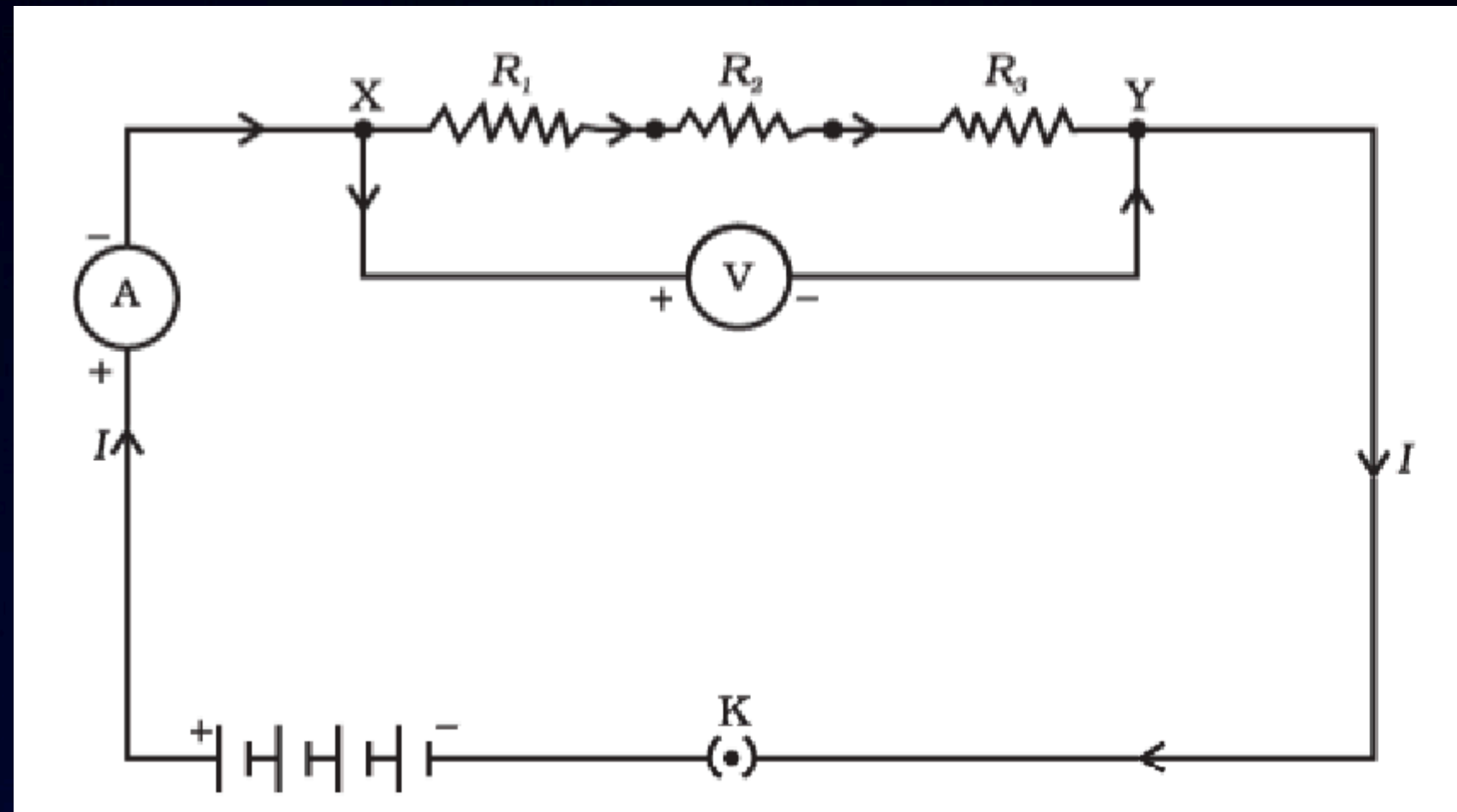
Recombination of the spectrum of white light



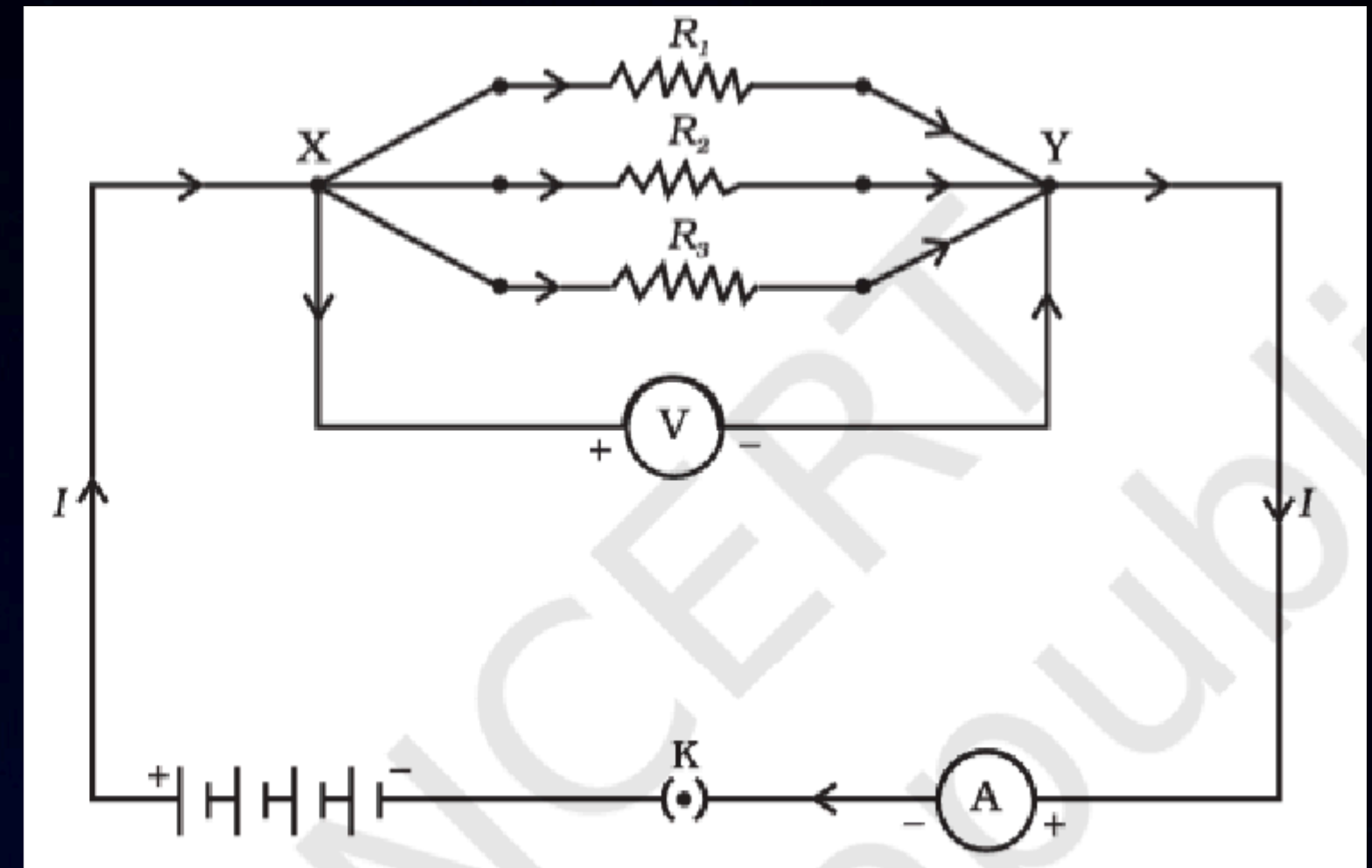
Atmospheric refraction effects at sunrise and sunset



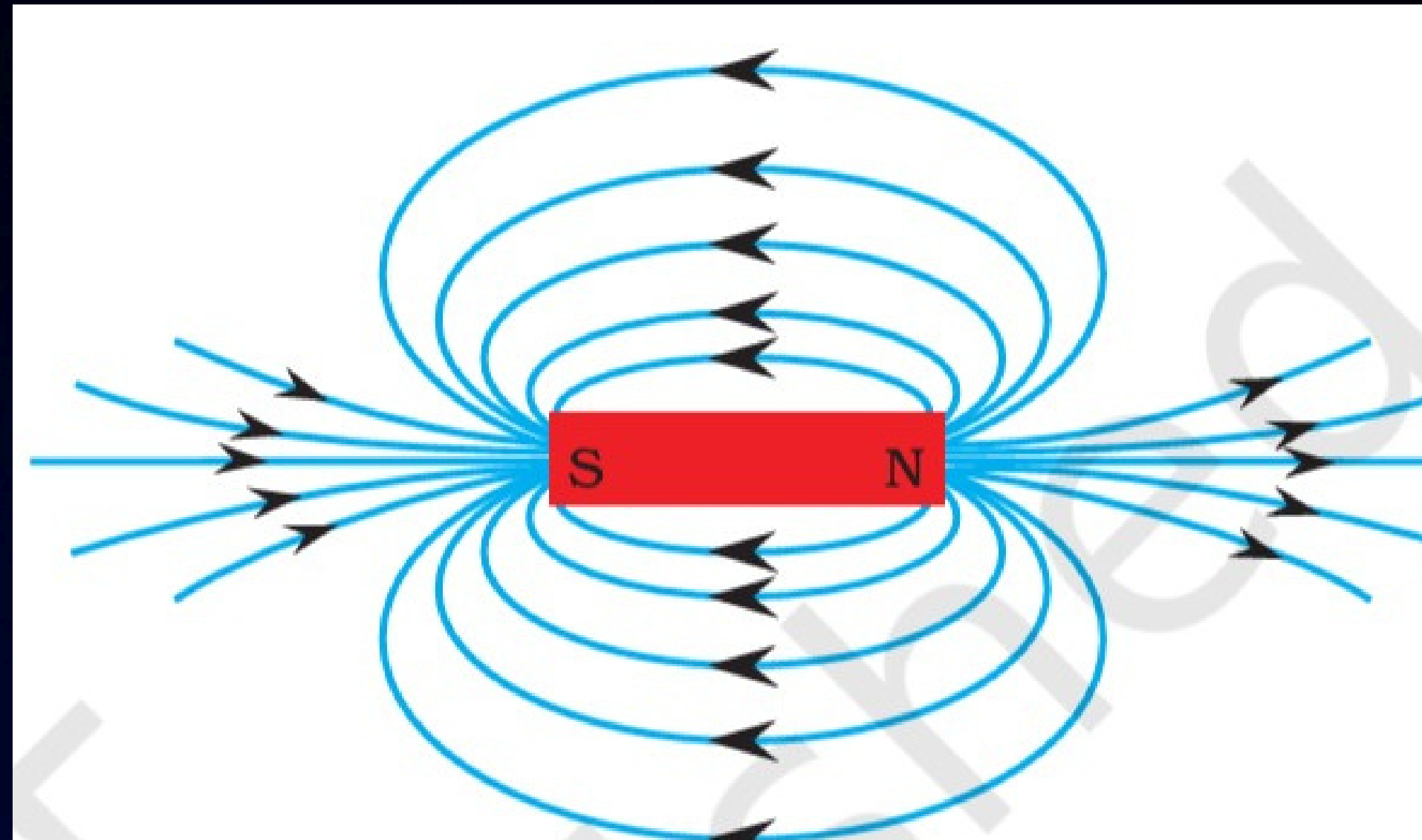
Resistors in Series



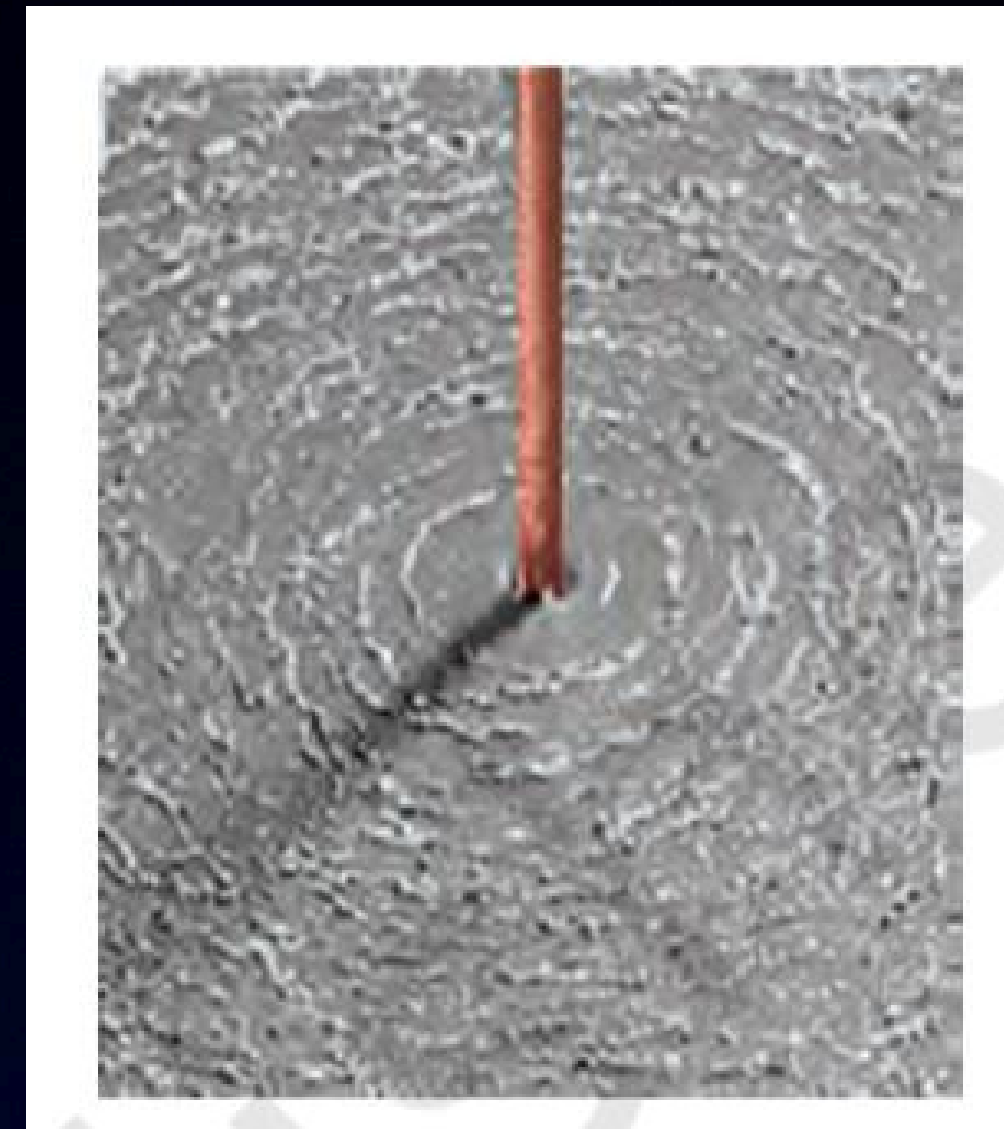
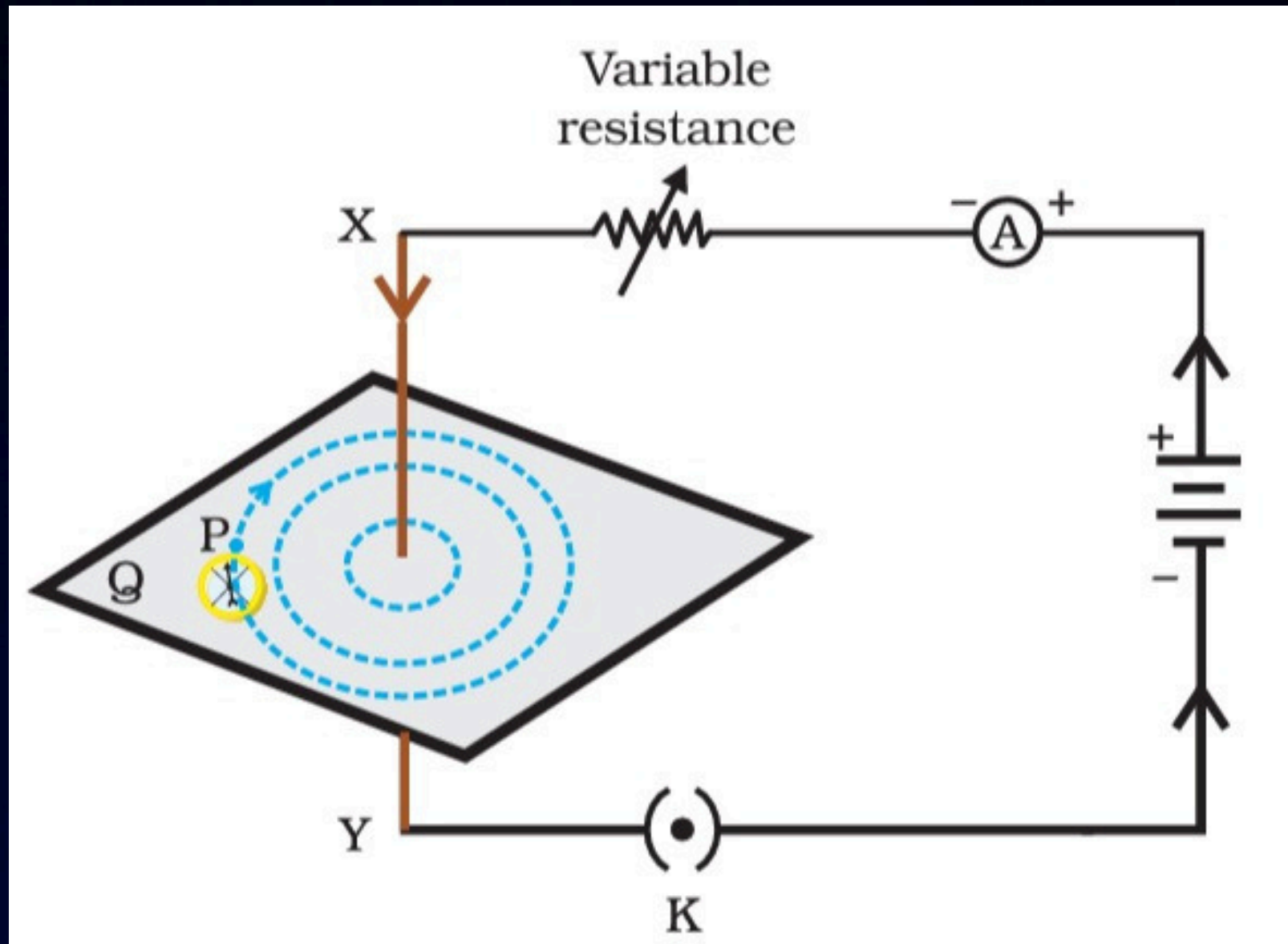
Resistors in Parallel



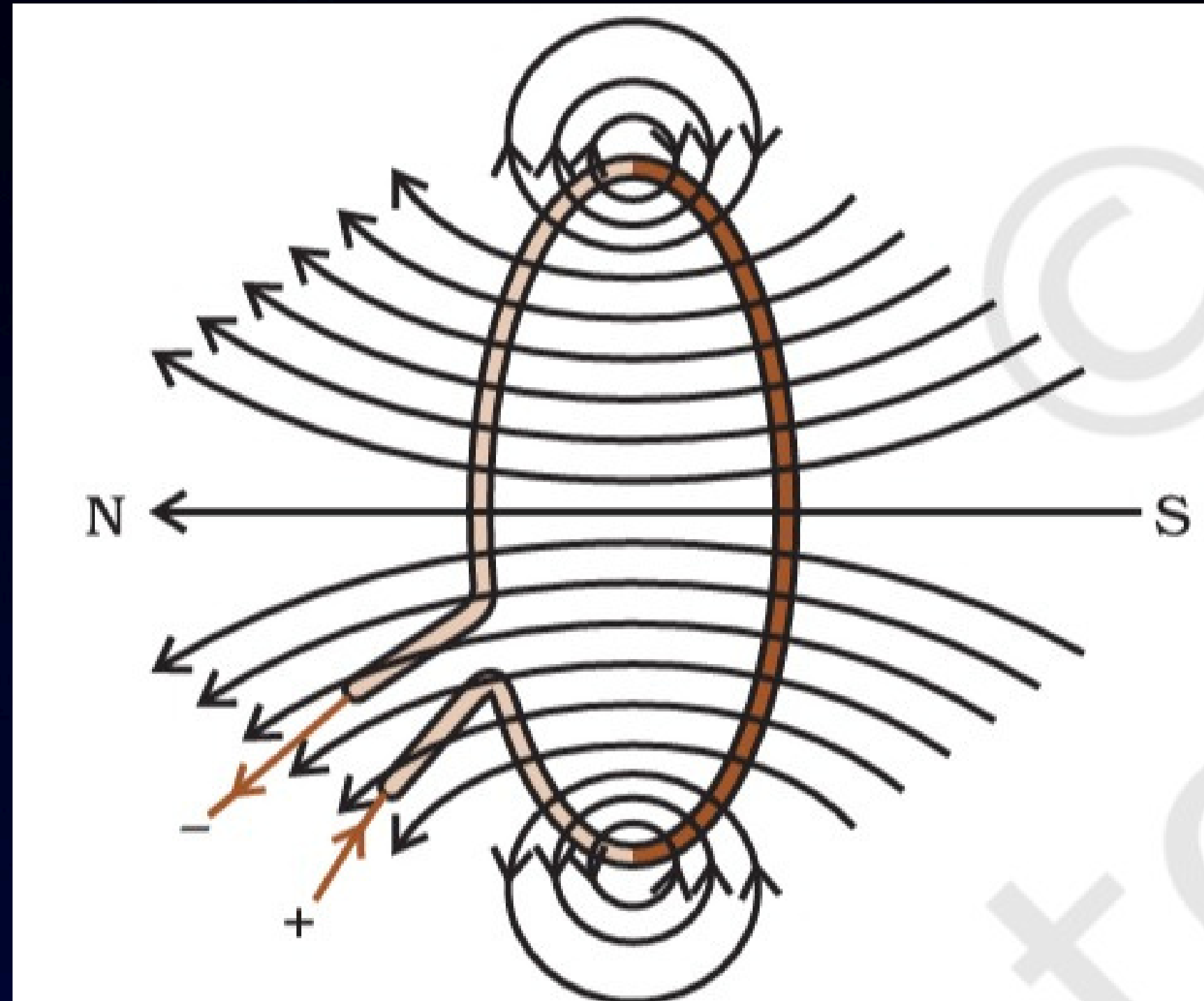
Field lines around a bar magnet



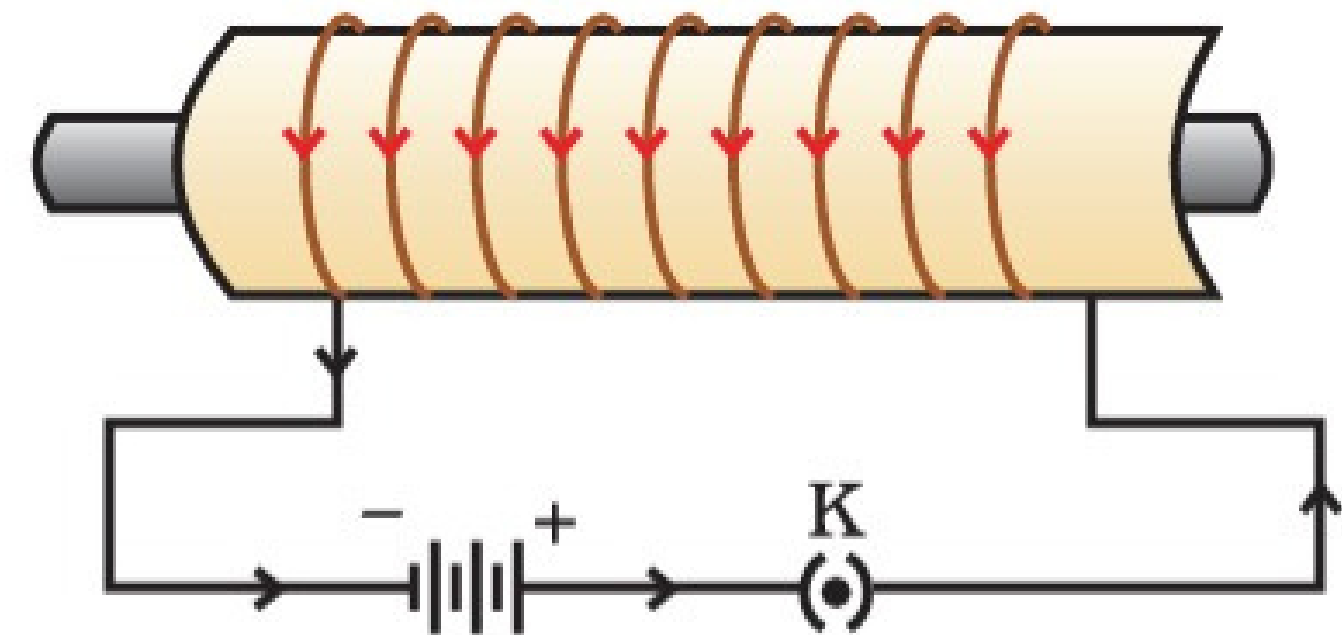
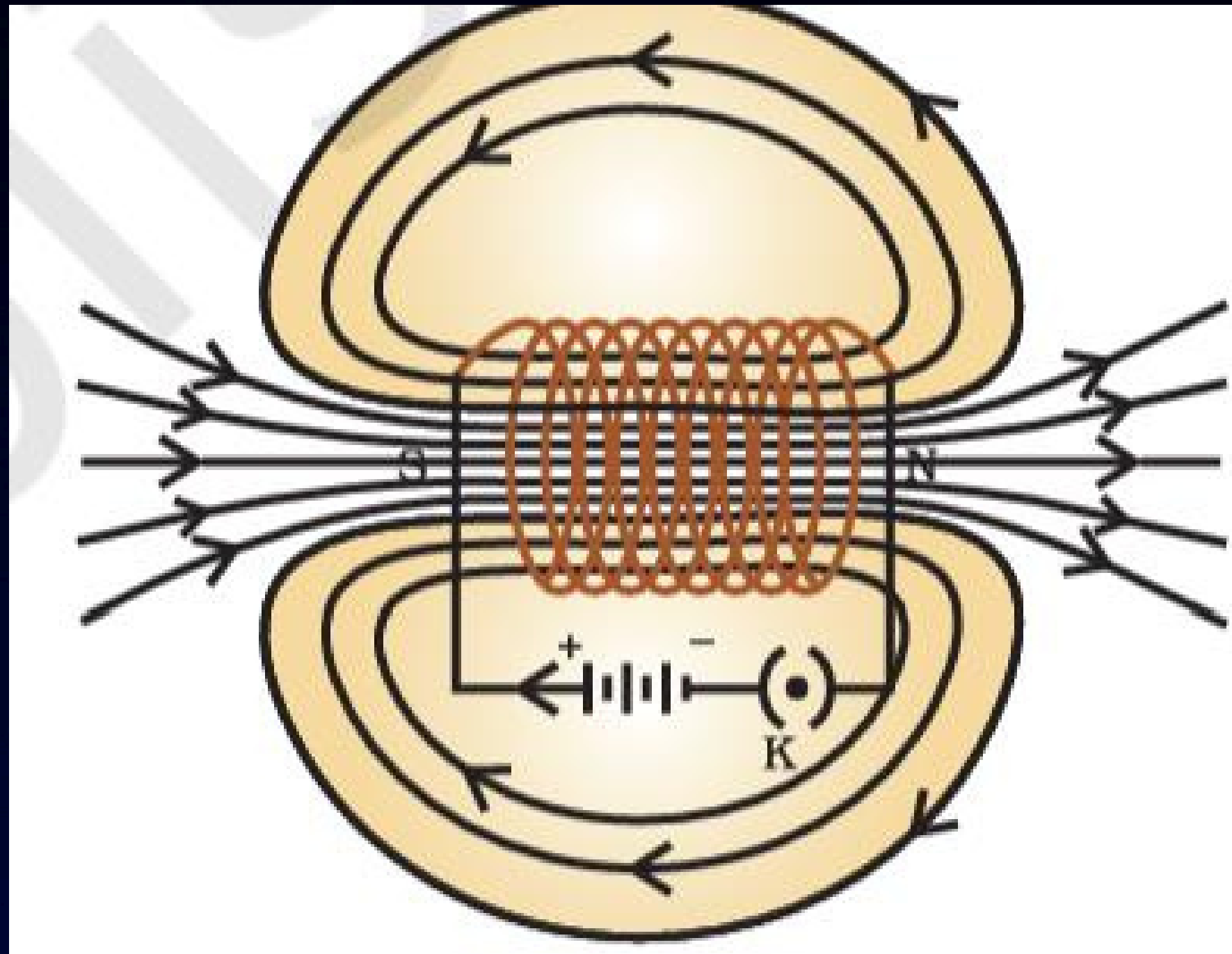
Pattern of concentric circles



Magnetic field lines of the field produced by a current-carrying circular loop



Magnetic field lines of the field produced by a current-carrying solenoid



A current-carrying solenoid coil is used to magnetise steel rod inside it – an electromagnet.



**Thank
You** 