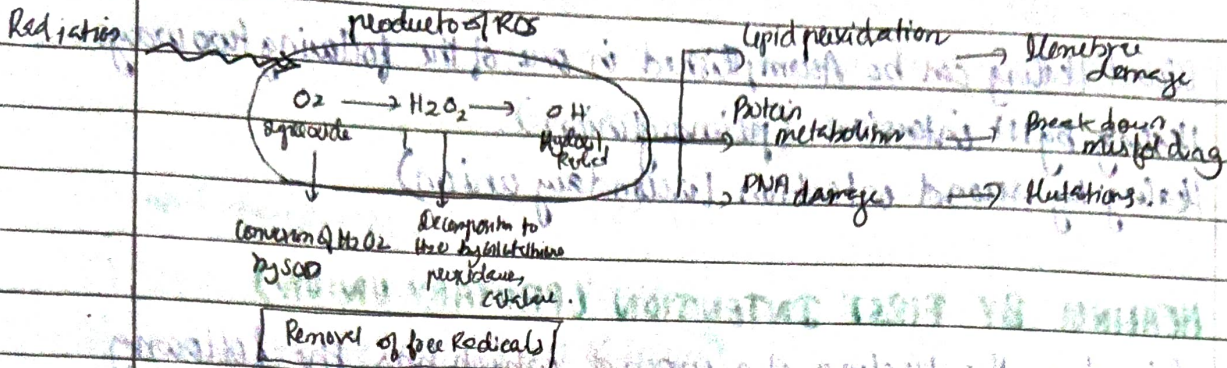


12:26

FREE RADICAL INJURY



When ROS or defect in the
detectors.

Accumulation of free
Radicals

oxidative stress.

→ all have diff mechanism to Remove free Radicals and thereby minimizing their injurious effects.

spontaneous
breakdown

enzymatic
mechanism.

→ Glutathione Peroxidase → protect cell from oxidative damage.

→ catalyze enzyme convert H_2O_2 into O_2 & H_2O .

→ property of Antioxidant

enzymatic

Non enzymatic

Antioxidants

Enzymatic Antioxidants

→ superoxide dismutase (SOD), Glutathione Peroxidase, Catalase,

Non enzymatic

→ exogenous: vit E, A, Selenium and β carotene

→ endogenous: stress, hemoglobin

