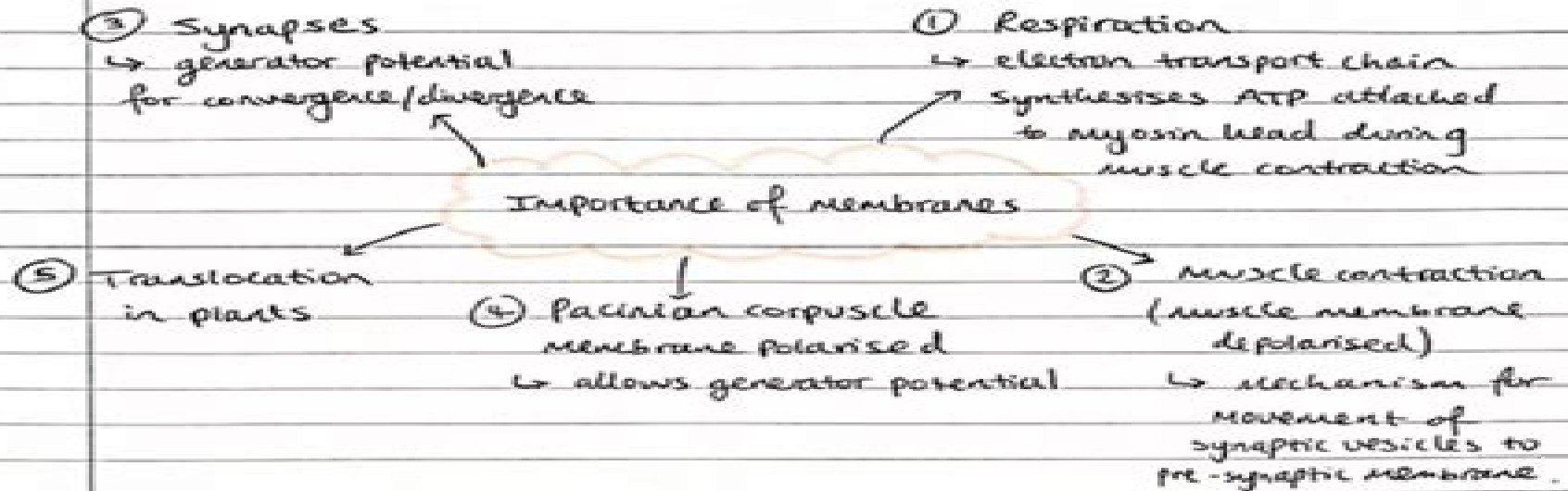


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Biology Essay

The importance of membranes in living organisms (25 marks)



In living organisms, membranes are important in the mitochondria's cristae in order for the electron transport chain in aerobic respiration to occur for oxidative phosphorylation to synthesise ATP. The process takes place where electrons are released from reduced NAD/FAD at the cristae and pass along electron carriers in the inner mitochondrial membrane via a series of redox reactions. Energy is released to the proton pumps to pump H^+ into the inter-membrane space where H^+ accumulates creating an electrochemical gradient which H^+ diffuses down via chemiosmosis. H^+ passes through a stalked particle containing ATP synthase where $ADP + P_i \rightarrow ATP$ releasing energy. Oxygen is the final e^- acceptor and combines with H^+ to form water. Aerobic respiration which relies on membranes in the mitochondria is an important process in living organisms as it synthesises ATP which is attached to the myosin head of muscle fibre during muscle contraction. ATP is hydrolysed to release energy ($ADP + P_i$)

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