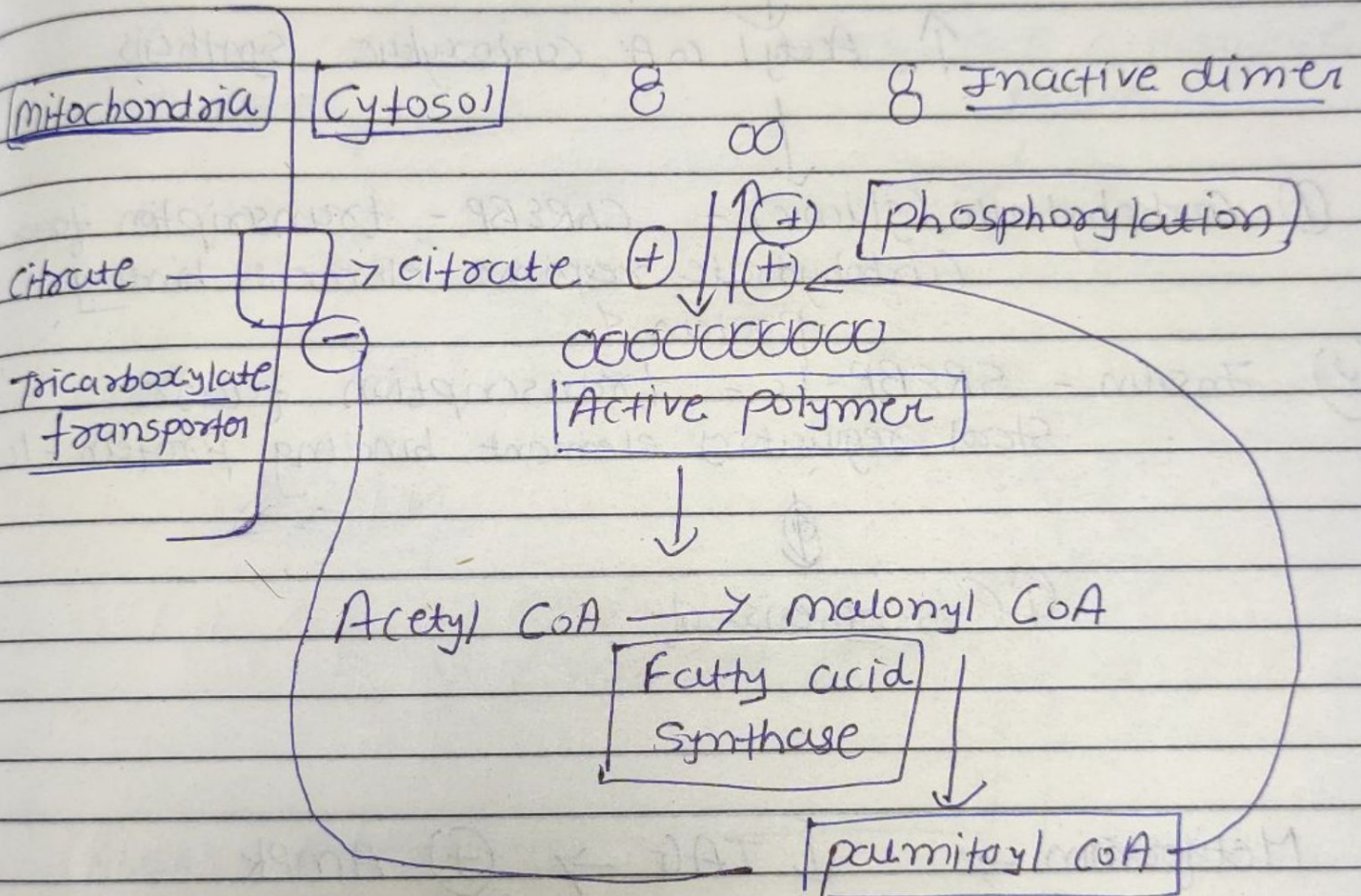


* Regulation of Acetyl-CoA Carboxylase

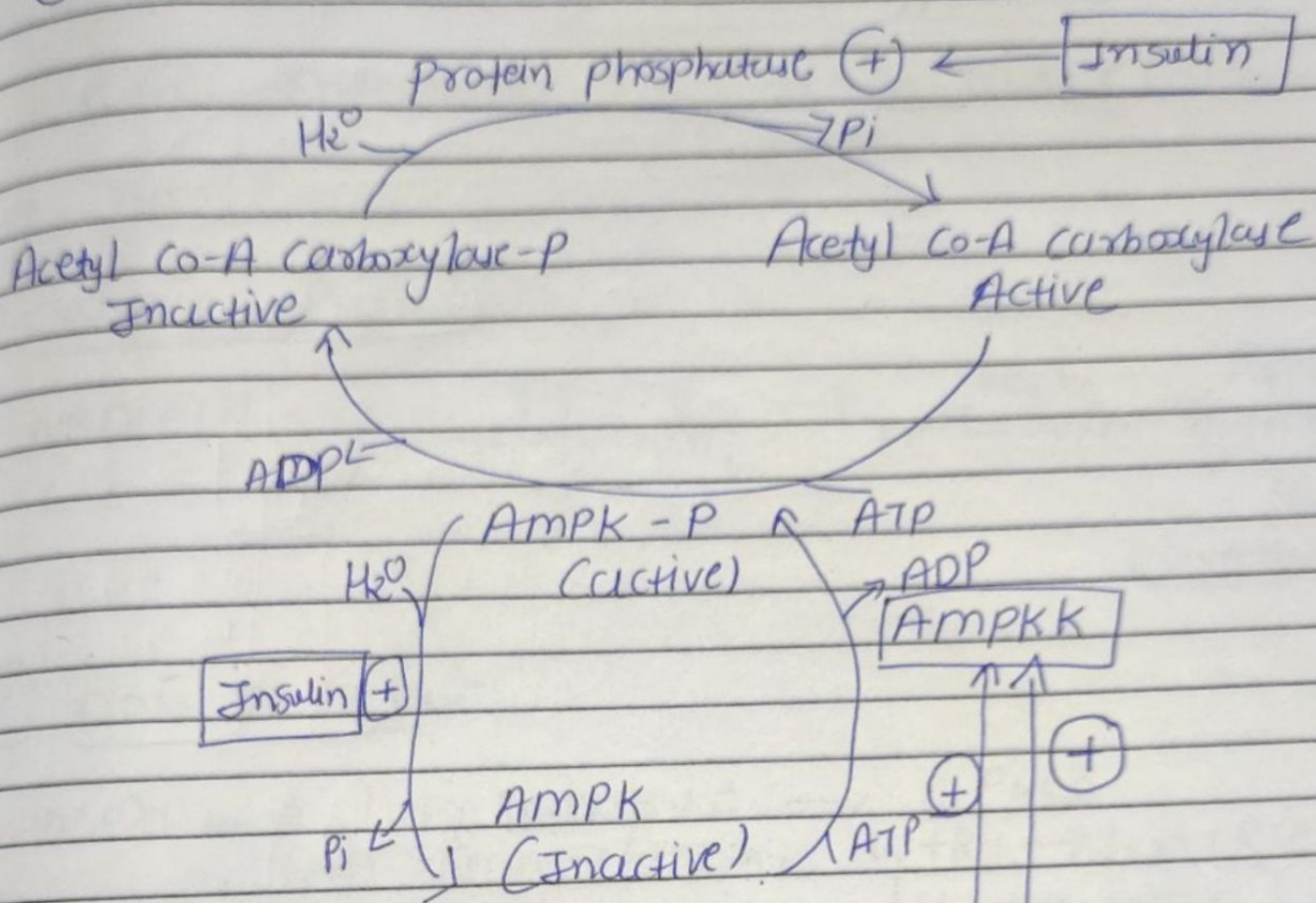
→ ~~important~~ for Lipogenesis

(1) Short term regulation

→ allosteric regulation



(II) Hormonal regulation :- Covalent



AMPK - Amp activated protein kinase
 AMPKK - Amp activated protein kinase kinase

Allosteric activator of AMPK - AMP.

② Long term regulation

High carbohydrate & low fat diet for prolonged period

↑ Acetyl CoA Carboxylase Synthesis

① Carbohydrate (glucose) - ChREBP - transcription factor
Carbohydrate response element binding protein

② Insulin - SREBP-1c - transcription factor
Sterol regulatory element binding protein-1c

↑ synthesis of