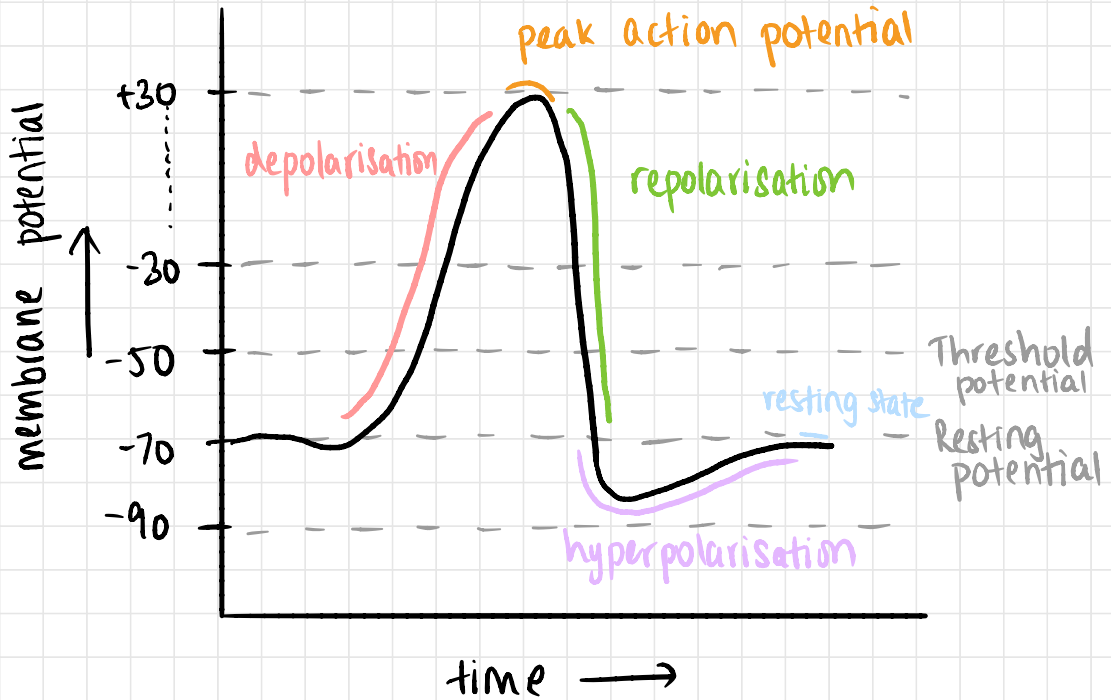
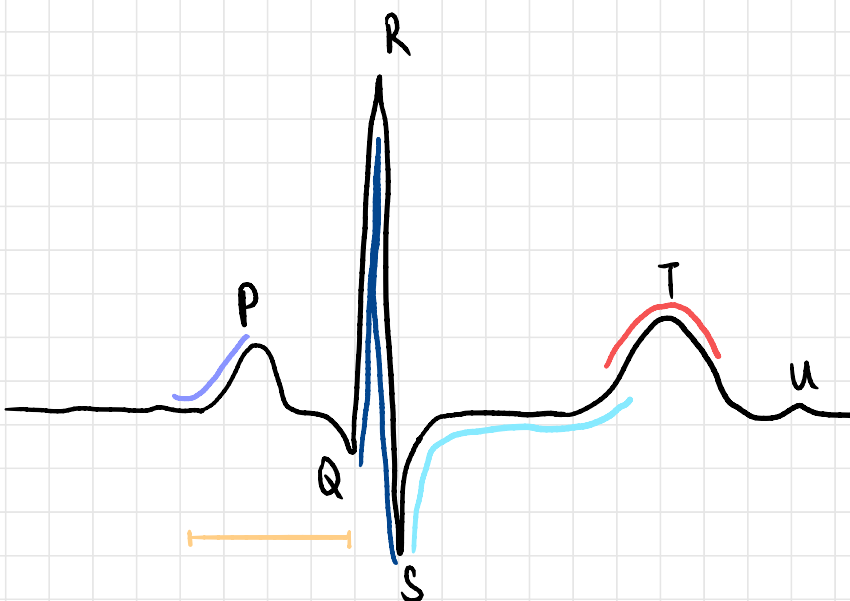




CARDIAC IMPULSE



ELECTROCARDIOGRAM



P wave (depolarisation of atria)

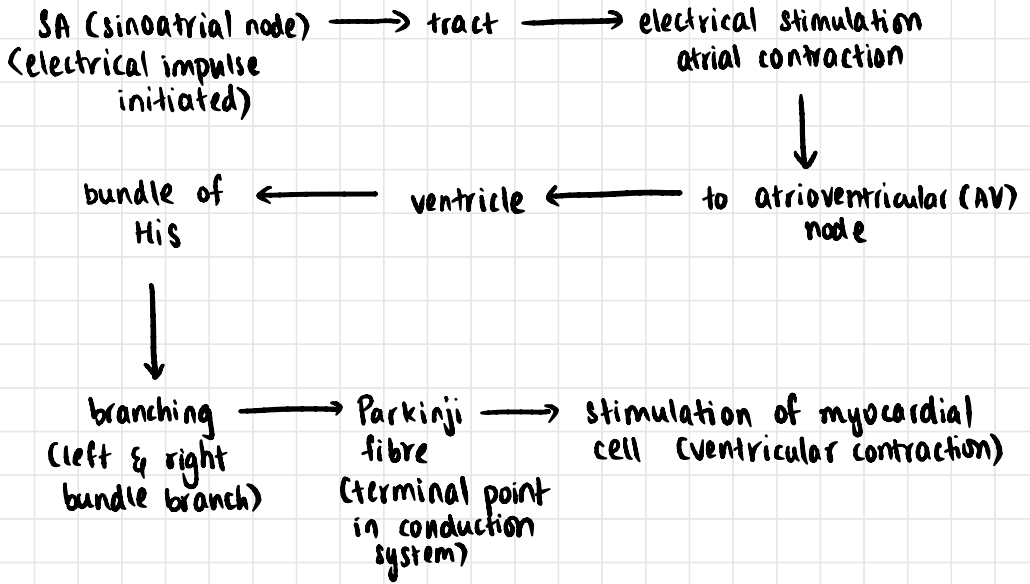
QRS (depolarisation of ventricle)

PR interval (delay of AV node to fill ventricle)

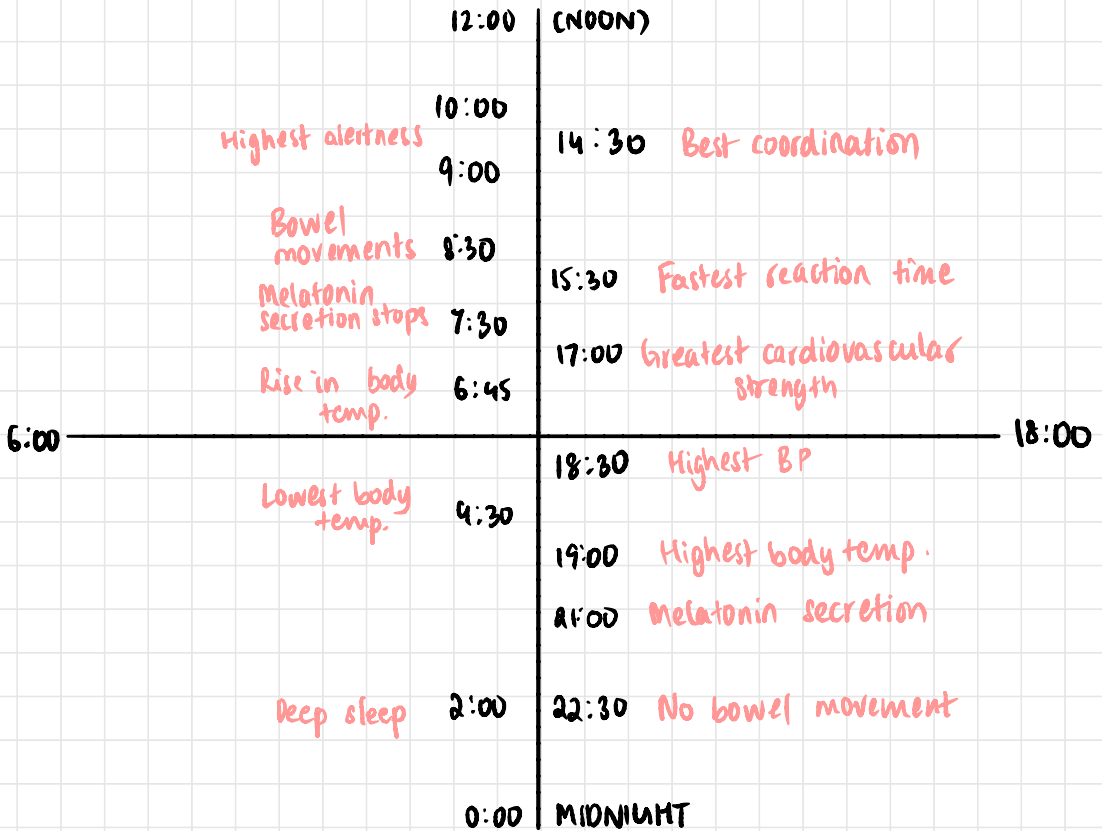
ST interval (beginning of ventricular repolarisation)

T wave (ventricular repolarisation)

PROCESS



CIRCADIAN RHYTHM



NEURAL MECHANISM

SCN (Master controller in hypothalamus)



Control production of Melatonin
from Pineal Gland

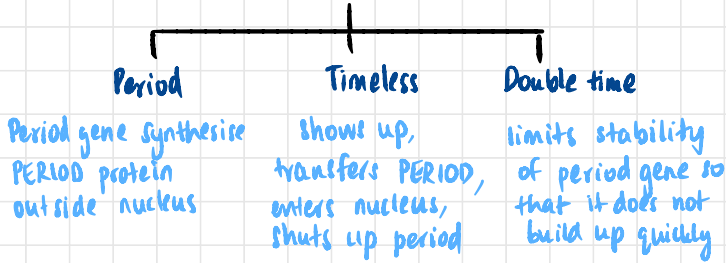
next
page*



Melatonin increases mid to late-evening, stay elevated
Melatonin decreases early morning

MOLECULAR MECHANISM

Clock genes



* Hypothalamus

