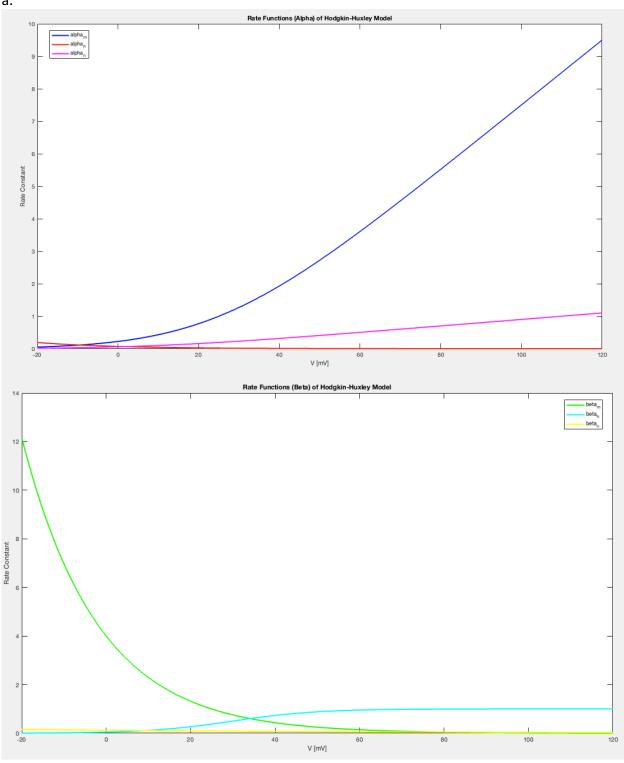
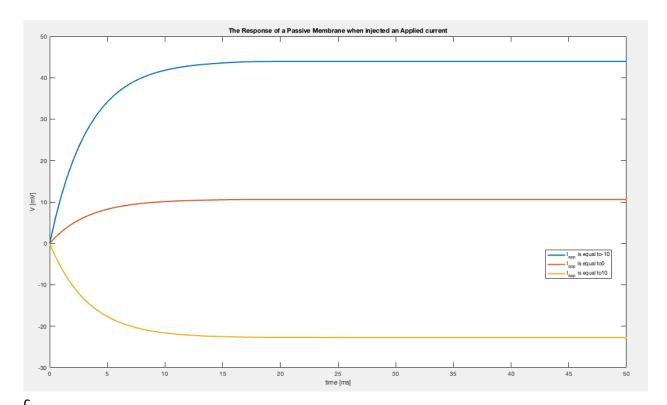
Problem 3

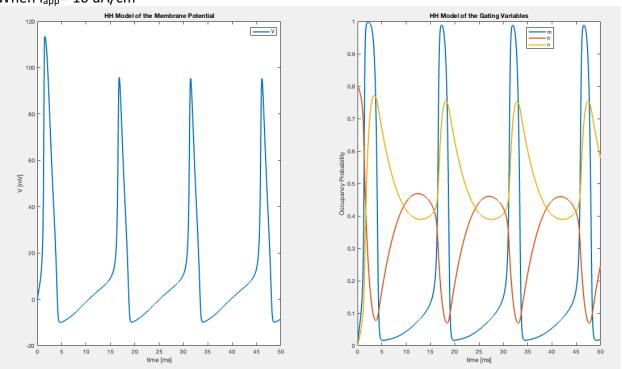
a.



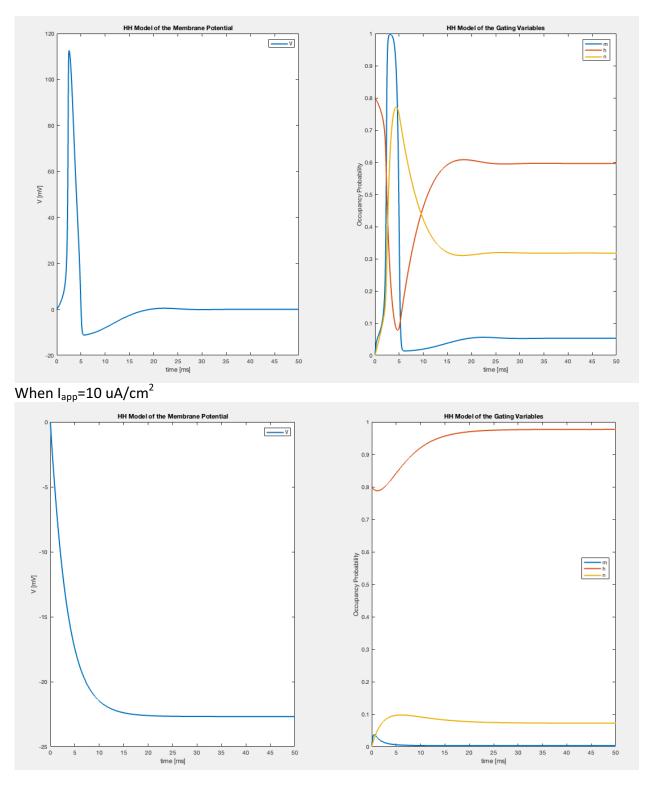
b.



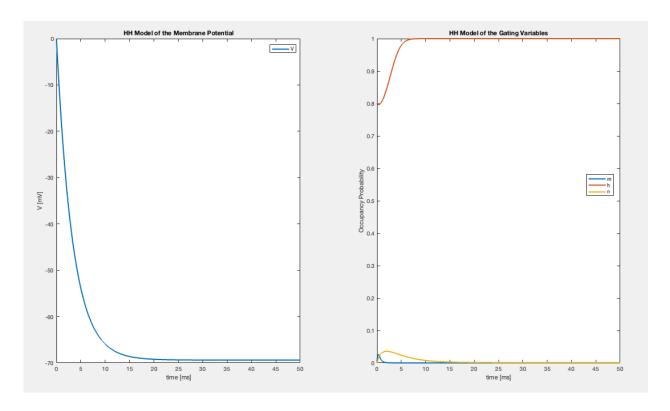
When I_{app}=-10 uA/cm²

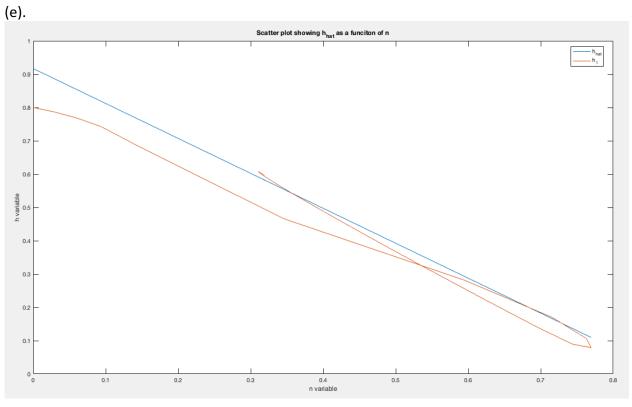


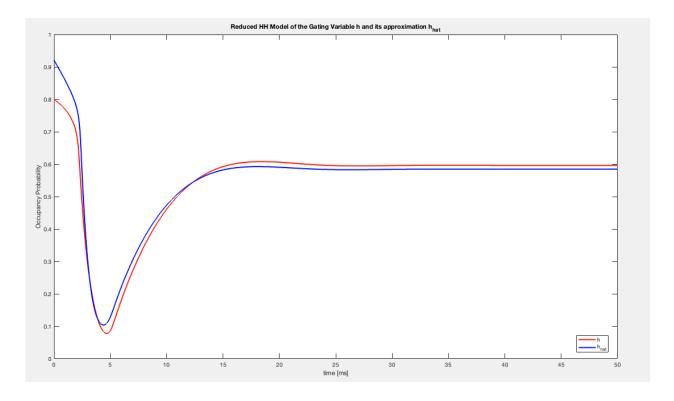
When I_{app}=0 uA/cm²



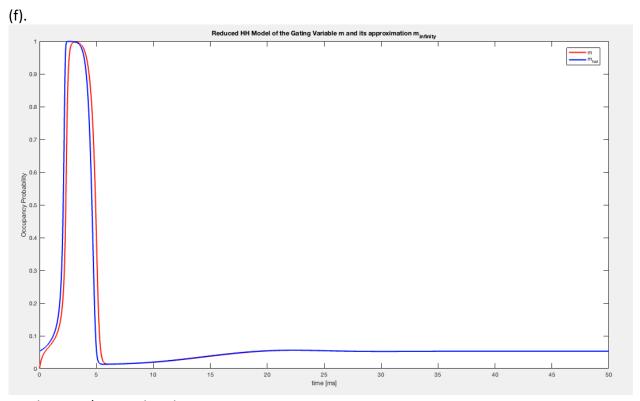
d). When I_{app} =24 uA/cm², the resting potential is set to -70mV.



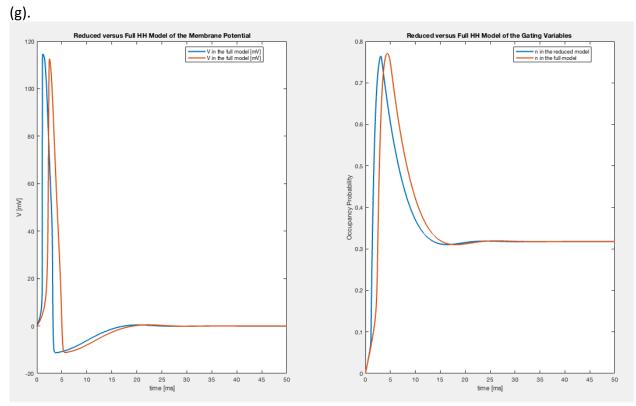




a= -1.061 ; b= 0.922



 m_{∞} is a good approximation to m



Overall, the reduced HH is a good replacement for the full model and the two models overlap to each other after 30 ms.

