Under MM, WACC Is Independent of company

b) We suppose the investment is carying the same rish as the current conjuny, we will discount the project using the WACC

NPV = - 950000 + 100000 = 43976 1+10,6%.
NPV 1: positive, the company should undertake the Investment.

c) First perposition states that the cost of capital is not dependent of the capital structure of the company if there is no lasces, market are efficient and complete.

The reason comes from the second proposition that states that cost of equily increases with the increase of debt ratio => this is because more dest implies more rish for the shoreholders in case of brushopky (debtoders comes first).

MM says that there two effects will offset each other st even of debt is cheaper, the increase of cost of equily will force wacc to remain condant.

From CAPM, we recall that BP =  $\frac{\pi}{2}$  xi. Bi. This could be applied to our calculation:

Exp. Be + Bo = Bu = Ba does not change with capital structure

Based on that, Be will increase too after swuring more debt.

d) WACC in a conteact of teaces changes:

We can see that it documes because of the tax shield. There is an incentive for companies to finance themselves using debt up to a certain point because of the risk of financial distresses and cooks.