## HW - Chapter 4 - Cost of Capital - Q19

Here we are assuming that MM Approach 1958: Without tax, where capital structure has no relevance with the value of company and accordingly overall cost of capital of both levered as well as unlevered company is same. Therefore, the two companies should have similar WACCs. Because Samsui Limited is all-equity financed, its WACC is the same as its cost of equity finance, i.e. 16 per cent. It follows that Sanghmani Limited should have WACC equal to 16 per cent also.

Therefore, Cost of equity in Sanghmani Ltd. (levered company) will be calculated as follows:

Ko =  $\frac{2}{3}$  x Ke +  $\frac{1}{3}$  x Kd = 16% (i.e. equal to WACC of Samsui Ltd.) 16% =  $\frac{2}{3}$  x Ke +  $\frac{1}{3}$  x 10%

On solving the above (in case of any confusion make your normal table of calculation of Ko)

Ke = 19%