- 1. IOM shares outstanding at \$20/share

 D=200M (H=0.03), reduce PV to 0.2 issuing TE & VD

 BE before = 0.8 Mkt fisk premium 5% BD=0.23
- (a) in M&M, the value of firm does not depend on choice of capital structure, so the value does not change before a after restructuring $VU = VL = E + D = 20 \times 10 + 200 = 9400 M$

(d) Felever in personal account -> that is to use short debt to buy more equity

e. In Mam, MA stays same at 0:18:18:182, value is still 55

in My new=0.1 -> D=J.5 still rad= Varen, because unlevering will not increase viskiness of debt

3. Pola = \$10, 20M shares out no debt $CC = 0.35 \qquad \text{bornowing cost} = 0.05 \qquad \text{perpetual debt}$ $A. Pnew = \frac{E_{\text{new}}}{\#_{\text{out}}} = \frac{20x|_{0} + 0.35 \times 5^{\circ} - 5^{\circ}}{20 - P} = \frac{5^{\circ}}{P} \qquad 167.5P2 + 5^{\circ}P = 100^{\circ}$ P = 4.597

b. Prew= $\sqrt{4.5977} = 10.875$ c. $PVCD75) = 7.5 = 0.35 \times 50 = 17.5 (in total) = 17.5/(20-4.597) = 1.13 by shee$ $d. <math>7^{\circ} = 1 - \frac{0.65 \times 0.9}{0.7} = 0.164286 \times 10 = 8.2143$