Question 5 Page 1.

a) Option A: PW = -upfint costs + annuity + salvageappront costs = 50 000

annuity = [9000(%, 10%, 8)](%, 10%, 1)= [9000(5.3349)](0.9091)= \$43.649.62Salvage = 8000(%, 10%, 9)= \$000(0.4241)= \$3.392.80

PW = -50 000 + 43649.62 + 3 392.80 Option A PW = \$-2957.58

Option B: PW = -upfrontcosts + annuity - maintenance

upfront costs=\$35000

annuity = 6000 (%A, 10%9) = 6000 (5.7590) = \$34554.00

maintenance = 3500(%, 10%, 3) + 3500(%, 10%, 6) + 3500(%, 10%, 9)= 3500[0.7513 + 0.5645 + 0.4241]= 3500[0.7513 + 0.5645 + 0.4241]

Option B PW=\$-6535.65

- b) Option A is better because its present worth is greater than that of option B. -2957.58 > -6535.65
- C) Neither project should be selected as with a minimum acceptable rate of return at 10%, neither option has a present worth greater than zero. Meaning the risks are not worth the return, and the money would be britter invested elsewhere.