## QUESTION 2

PART A

TARGET = 00 + 0, x, +0, xz +0, xz +0, xz

00 = 40, 0, = 20, 0z = 0.1, 03 = -30

04 = 0.01, 05 = 10

i) FIXED GPA TECH > NONTECH ?

TARGET = 40 + 20x, -10,1x2-30x3+0.01x1x2

NON-TECH : (X3=0) TARGET = 40+20x, +0.1x2+0.01x1X2

TECH : (X3=1) + 10x1 TARGET = 40+20x, +0.1x2+0.01x,x2 -30

POS. earn more on average than non-tech when GPA is high enough.

PART B [GPA = 4.0] +ECH-SALARY: = 40 +20(4) +0.1(25) +0.1(4)(25) +

10(4)-30 = 40+80+2.5+1+40-30 = 133.5 K

NON-TECH = 40+20(4)+0.1(25)+0.1(4)(25) = 40+80+2.5+1 = 123.5 K