CIN: 3066 12501 Homework: 5 Here is the above regression model after replacing the coefficients: Salary = 30 + 90x1 + 0.07x2 - 30x3 + 0.01x, x2 + 10x, x3 Por mon-technical positions, X8=0, so the 4th team of the equation (-80x3) and 6th team team Of the above equation (10 X, X3) are zono. salary = 30+ 20x, + 0.07 x2 + 0.01x, x2 However, for technical positions, X=1,50 the 4th term in the equation is so, and oth term is lox, So, for technical positions the salary will be: Salary = 30 + 20 x1 + 0.070 X2 + 0.01 X1 X2 + 10 X1 - 30 NOW, it all depends on XI: if XI CCTPA) is more th 8, then lox, -30 >0, thus the total salemy of

technical is higher than non-technical. But it X (OCPA) is less them 3, then 10x, -30 20, thus the total solary of technical positions is less their non- technical Thus, the correct answer is (iii) (6) Salary non techical = 30 +20 + 4 + 0.07 + 27 + 0.01 + 4+ 27 112,97 K 8 Solerry, technical = 30 +20 +4+ +0.07 +27 +0.0) + 4+ 4+ + 10+4 - 30 122.97 K B

Proper 1:

((1,1),2) & (1,3) > 6 and ((2,1),7) & (4,3) = 21

((1,1),2) & (1,3) > 6 and ((2,2),2) & (2,5) = 10

((1,2),3) & (2,5) > -15 and ((2,2),2) & (2,5) = 10

((1,2),3) & (3,-6) > -6 and ((2,2),-1) & (3,-6) = 6

((1,2),5) & (4,9) > 45 and ((2,4),0) & (4,9) = 6

((1,4),5) & (4,9) > 45 and ((2,4),0) & (4,9) = 6

((1,4),5) & (4,9) > 45 and ((2,4),0) & 30

((1,6,-15,-6,45)) -> (1,(6-15-6+45)) = 30

((2,4),10,6,0)) -> (3,(2)+10+6+0) = 37