Question 1 C= [1, -, 4] T=[1, ..., () titl & titT define Xij = & 1 ar i assigned by Truck i. define Cj = cost letine Kj = capacity. V JGT 5t ¥36⊤ **∑** Xij ≤ kj 4it 6 I Xij = 1

Quartien 1 A = [1, ..., 6] Y = [1, -., 5] tith & tjty define Xij = \$1 asset isold in year j define Cij = spend Max I I Cij Xij igA jex St YjeY I Cij Xij = 30 Vie A 2 x1) = 1 jer

Readion 1 R=[1, ..., 6] titR defined Xi = 51 it ambulance locate in i

Yi = 51 it region i sewed within

20 0.w. Lapin P: = population YIER YJER Tij : time botueen i & j Cij Z 1 Tij = 4 Max I PiYi St IXi=1 iER y ier I cj Xj ZY;

D. Mir \(\sum \text{Xi} \)

S. \(\forall \text{ for } \sum \sum \text{Pi Yi} = \sum \text{Pi} \)

\(\sum \text{Q} \text{Yj} \ge \text{Yj} \)