Moddi vinceth Goud Arigument: 1 811196971 umadd:1@kerd Edy Linear programing 1) a) P(GM) = 32C +24M P= Total protit as a tunction M= No. of Minis 6) Objective tunction: Maximize protit (c,m) = 32c +24m Constraints! 102/11/11 at at 10/3CH 2M & 5000 3/4 C + 2 m < 1400 Mon - negativity

PZO

CZO

MZO

OCC CZ 1000

OE MZ 1200

D) full Mathematical toxmulations,

Maximize p sofit p(c,m): 32c+

24m

Constraints are 3c +2m \leq 5000 $\frac{3}{4}c + \frac{2}{3}m \leq 1400$

0 ≤ C ≤ 1000

0 = M = 1200

Non - Negativity P(C,m) 20 a) Decision Variables: let Nij be no of with of live Jun de ou = N (1 = No of plant (1,2,3) i = holds the plant of speed; un, large p = has to be maxim; sed Objective function: P = 420 (N, L + N2L + N3L) +360 (N'W + NTW + N3W) + 300 (N'E + N38+ Constraints!-Nic + Nim + Nis = 750 -> Plant 1 Net + Nem + Nes < 900 > plant 2 N3L +N3m + N3S < 450 -> plant 3

Storage limits: 20 NIL + 15.NIM + 12N1 & 13000 20 N_{2L} + 15N_{2m} + 12 N_{2s} < 12000 20 N_{3L} + 15N_{3M} + 12 N₃ € 5000 Sales tore cost: NIL + NIM + NIS < 900 N2L + N2m + N25 < 1200 Ngh + Ngm + Ngs & 750 Percentage to avoiding layoft NIL + Nim + Nis x100 = N2L + N2m + N25 ×100 Objective tunction: P = 420 (N11+N21+N31) + 360 (Nim+ N2m + N3 m) + 300 (Ns +N23 +N35) Constrainty: non-Negativity N.j 20

P = 0