Julgann Jain Assignment - LP Model fuil a) clearly define the decision variables the mini be + x, b) Objective functions for profit manimization

Man Z = 32x1 + 24x2 - (Ost (15504) habour (out = 0.75 (1000) + 0.67 (1200) het wage purhaue be y = 1550 y (c) Constraints? - 00 M > ≤ 1000 y 2 ≤ 1200 nylon 5000 St ft week 1 habour = 1359 - 040 hrs week + (30x45) = 1350 hours d) Subject to per 3x1 +2x2 5500001 7. Les 10.75 x, + 0.67x2 1350M+ M Hathematical formation 2017 MZI + 1205 Non negativity - X, 7, 0, 122, 0 LIKE 2-2-X2) LOXIS) MIXI ) MOXES MOR

different plants are LIMIS,

different sizes are LIMIS,

L2 M2 S2

L3 M3 S2

+ 360 ( m) + m. 1. Man Z = 420 (L1+L2+L3) + 360 (m, + m2+m3) + 300 (S1+S2+S3) [ our daily = 420L1 + 420L2 + 420L3 + 360 m1 + 360m2 +360 m3 + 300 S1 + 300 S2 + 300 S3 Ed.0 T (0001) 27.0 = J.0) PHOROLI Constraints - L1 + M1 + S, 

Space aparity L2 + M20+53 < M50 - [Plant 3 space Capacity] L<sub>1</sub> + L<sub>2</sub> + L<sub>3</sub> \le 900 (large sales forecast)

M<sub>1</sub> + M<sub>2</sub> + M<sub>3</sub> \le 1200 (medium Sales forecast)

S<sub>1</sub> + S<sub>2</sub> + S<sub>3</sub> \le 750 (Small sales forecast) 20 L, + 15M, + 125, 5013000 ( Wlant 1 Storage story) 20 L2 + 15 M2 + 1252 < 12000 ( Plant 2 storage) 20 63 + 15 M3 + 1253 ( 5000 ( plant 3 storage) LIXI 1 L2 X2 , L3 X3 , M1X1 , M2 X2 , M3 X3 , S1X1,52X2,55X3 > 0