CA-8-3 Optimization Algorithm Gredit- Ist

Time: - 11 AM to 12 PM Date: - 821/04/2021 Marks-20 (9.1) Klhatz is OR ? Write down the applications of OR techniques? (92) Solve following example using graphical method Maximum Prufit (P): 4000 x + 5000 y (5m) gebject to-5x+4y 5200 3x+54 < 150 5x + 44 > 100 8x +4y 7,80 7470 Solve following TP using VAM method @37 Destination. Supply 4 300

Source.

Demon

250

350

400

200

400

500

1200

94. A company monufactures 2 different types of products PI and P2. Each product requires processing an milling machine and drilling machine. But each type of machines has limited hours available per week; giving in table. — 5M

Machine type	Processing time (hours)		/ Machine haus
	Pooduct PI	Product P2	aucillable per week
Milling machine	2	5	200
Drilling machine	4	2	240
Postit/quit (Rs)	250	400	

production volume of each of the products.

Q-5 What & is Linear Programming?
What one the advantages of LP?