Page No.

NAME - RAHUL ROLL NO - 220101041 SEC - A

T NWM

	0.	02	Da A	vallable
A	16	19(4)	12	WY0
P.	12	13(11)	19(5)	1650
C	14	28	5 (12)	120
Demand	100	15 NO	12/20	Demand
				- 5 40 0 hrs

Jatalcost = 160+76+143+95+96 = 570

LCM

	D.	D2	D3 -	AVOILABLE
A	16(90)	19	12(5)	196
G	22(1)	13(15)	19	1610
0	14	28	8(12)	120
De mand	10,10	150	1780	

TOTAL 508+ = 144+60+22+195-+96

= 517

VAM	Di	D ₂	D3	A VOITAble	PINATTY
A	16(9)	19	12(5)	1496	4 4 3 16 16
В	22(1)	13(15)	19	168	6 6 9 22
C	14	28	8(12_	120	6
De me	ma joto	to	1450		
Pe	nasty 2	6	4		
	6	6			



TotAllost = 144 + 60 + 22 + 195 + 96 SI7 - OPTIMUSCI

m+n-1 allotrous feasible

checking for optimality

o necessity	V1 = 16	V2=7	V3=12	
V ₁ = 0	16 (9)	(-12)	12[5]	dis = ui +vg-dj
The second secon	22(1)			

 $V_2 = 6$ 22(1) 13(15) (-1) $V_3 = -4$ [-2] [-25] 8(12)

Alldig <6 : ToTAL (OS+ =517 is an OPtimal Soil)

Σ,

THE REAL PROPERTY.					The second second
			5 A		
					Page No. [
L. NWM	1	2	3	4-	SUPPLY
1	21(6)	16(5)	2 5	13	xt+0
2	17-	18 (2)	1418)		***
3	3.2	17	18(4)	पाराङ	14180
Demand	\$6	1886	Myo	15	0==
	Total	os+ = 12	6 + 86 + 90	5 + 112	+72+615
			095		

			220		
rcw	9	7			
		4	3	4	5
1	21	16	2.5	13(11)	186
2.	17	18	14(12)	23	13/10
-3	32	27(10)	18.	41 (4)	18840
0	686	160	120	Mua	1.7

3

TOTAL (OS+ = 143+17 + 168 + 168 + 276 + 164) = 922

VAM										
	1	2	3	4	5	P	enalit	d		-
7	21	16	25	13(11)	WO.	3				_
2_	7(6)	18(3)	14	23(4)	1383	3	33	4	18	
3	32	27(7)	18(15)	41	1876			9	27	
Domand.	80	18 70	120	18×10						
Penalli	4	2	4	10						
	15	9	4	18						
	15	9	4							
		9	4							_
		27								

69 otmants . Feasible . m+n-1 = 3+4-1=16

=7

JOHA1603+ = 143+ 102+54+92+189+216 = 796- optimalsom



Page No.
Date

Checking for optimulity

[-14] [-8] [26] 13(11)

V2=18 V3=9 V4=23

V1 = -10 $U_2 = 0$ 17(6) 18(3) [-5] 27(4)

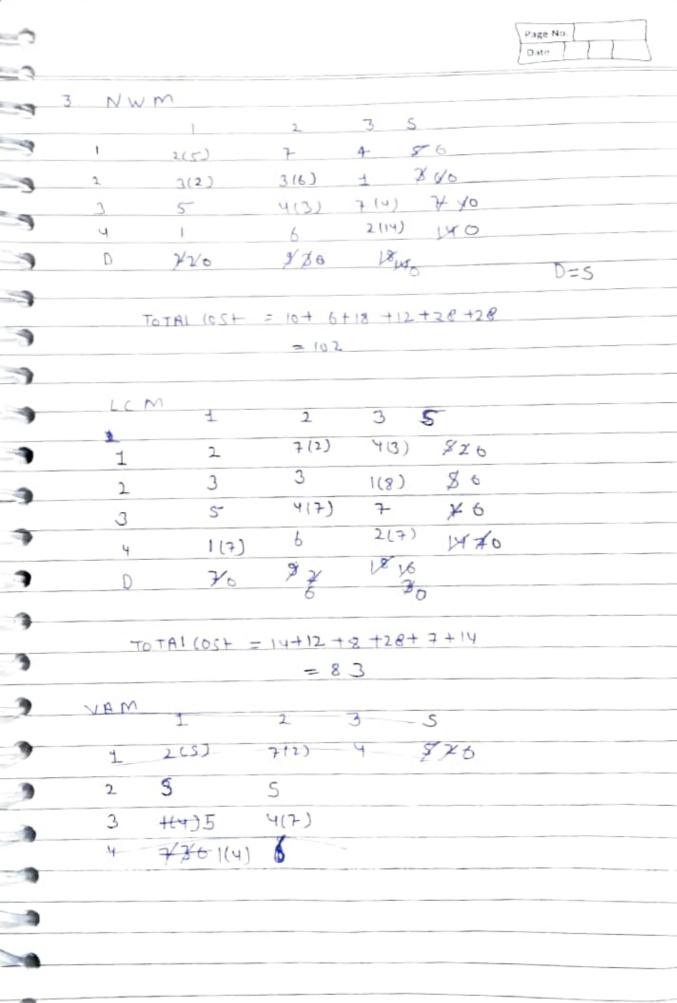
V3 = 9 (-6)

27(7) 18(12)

(-9)

· duso

Optimal som



Page No.			
	-	1	

VAM	- 1	2	3	- 5	penality
541	2(5)	7 (2)	4	416	1 2557
	5	S	112)	80	2
2	5	419)	7	70	111144
4	114)	6	2(10)	MAO	1 1 5-
D	730	970	1000		
Penality	1	1	1		
	1	2	2		
	1	2			
	3	3			6 gliatments
		3			FEMASE C
		4			: m+n-1 = 6
Tot	Aliost	= 6+1	4+8+28+	4+20	_
		= 81	5		
Checkin	€ €06	op ti mail	144		

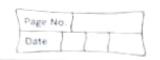
Checking for optimality

	V1=2	V2=+	V1=3
07 =0	2(3)	7 (2)	[-1)
U2 = -2	[-3)	[2]	1(3)
V3 = -J	(-6)	4(7)	(-7)
U4 = -1	1(4)	[0]	2(10)
	dig 40	. No+ o	PHIMULSOIM

MODI method

	1 (2)	V2(7)	A3(37)
0,10)	2-k	7-K	4 -1
U2(-2)	3 3	3 12	1-K
U3(-3)	5	7 4	7 (-)
WE1) 50	1 - K	6	10) 2 - k

mink = Ke min {8, 4,24



	V. [-3]		V2-10)		1(-2)
W (15)	2		7.	1-1	4	-17
M2(3)	3	1-3	3	5	ļ	
43(4)	5	-4	7		7	1-5-
J44(4)	3 1		6	1-2	2	

TOTAL 105+ = 10 + 6 + 6 + 20 + 2 + 24

= 76 - optimalsolm

1.017.60

4. NW m

	A	B	(D	
X	10(16)	8(1)	1.1	7	3 ()
Y	9	12/14)	14/26]	6	26 46
Z	8	9	12 (5)	(0(30)	38 56 6
Ь	166	18146	318	36	20 20 0
					9=6

TOTAL (05+ = 160+132+168+364+60+300

LCM

	A	B	C D 9
¥	10	3/3)	11(2) 7 2026
У	9	12	14(10) 6130 46/06
2	8[10)	9	12 (19) 10 35 815 8
b	K6	120	25 260
			100

TOTAL = 144 +22 +140 +88 +128 +220 =842

