

MP-1 TUTORIAL-8

1. Demonstrate the Initial Basic Solution in Transportation problem using Row Minimum method, Demonstrate the Initial Basic Solution in Transportation problem using Column Minimum method in Linear Programming.

QUESTION:

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Source / Destination	P	Q	R	Supply
A	5	8	4	10
B	6	6	3	40
C	3	9	6	60
Demand	20	95	35	150

ANSWER:

Row Minima Method

15 5	8	35 4	50 15 0
5 6	35 6	3	40 25 0
3	60 9	6	60
20 0	25 60	35 6	

Transportation Cost is $15 \times 5 + 35 \times 4 + 5 \times 6 + 35 \times 6 + 60 \times 9 = 995$

Row Minima Transportation Cost is 995

2. Demonstrate the Initial Basic Solution in Transportation problem using Column Minimum method in Linear Programming.

QUESTION

Source / Destination	P	Q	R	supply
A	5	8	4	10
B	6	6	3	40
C	3	9	6	60
Demand	20	95	35	150

ANSWERColumn Minima Method

5	10	8	4	10
6	40	6	3	40
20	3	1	35	60
20	95	35		

Transportation cost is $50 \times 8 + 40 \times 6 + 20 \times 3 + 5 \times 9 + 35 \times 6$

$= 955$

Column Minima Transportation Cost is 955