

CBSE NET

Q. Consider the following transportation problem.

Factories	Stores					
		I	II	III	IV	Supply
	A	4	6	8	13	50
	B	13	11	10	8	70
	C	14	4	10	13	30
	D	9	11	13	8	50
	Demand	25	35	105	20	

The transportation cost in the initial basic feasible solution of the above transportation problem using Vogel's Approximation method is:

- (A) 1450
- (B) 1465
- (C) 1480
- (D) 1520

Ans. (B)

Explanation:

		STORES				ROW DIFFERENCES			
FACTORIES		I	II	III	IV	SUPPLY			
	A	28 4	57 6	20 8	13	50/25/10	2	2	5
	B	13	11	74 10	8	70/0	2	2	2
	C	14	94 4	10	13	30/0	⑥	-	-
	D	9	11	13 13	20 8	50/20/15	1	1	3 ⑤
DEMAND		25 5	35 5	105 10	20				
		5	5	10	20				
COLUMN DIFF.		5	2	2	0				
		⑤	5	2	0				
		-	⑤	2	0				
		-	-	2	0				
		-	-	2					

In VAM, Row difference and column difference is calculated.

To calculate row difference, difference of 2 smallest columns are selected, and same process is followed for column difference too. Than to fullfill the demand, value of largest row or columns difference is selected.

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