Due on 2019-10-23, 23:59 IST.

Unit 13 - Week 12

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Assessment-12

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

1) By using the dual simplex method the optimal solution of the following L. P. P.

Min. $Z = 3x_1 + x_2$ subject to

 $x_1 + x_2 \ge 1$ $2x_1 + 3x_2 \ge 2$

and $x_1, x_2 \ge 0$, is given by 2

1

3

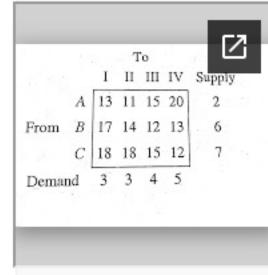
No, the answer is incorrect. Score: 0

Accepted Answers:

2) The initial basic feasible solution of the following transportation problem, using north - west corner method

1 point

1 point



is given by

$$x_{11} = 2$$
, $x_{21} = 1$, $x_{22} = 3$, $x_{23} = 2$, $x_{33} = 2$, $x_{34} = 5$
 $x_{11} = 2$, $x_{21} = 2$, $x_{22} = 2$, $x_{23} = 2$, $x_{33} = 2$, $x_{34} = 5$
 $x_{11} = 2$, $x_{21} = 2$, $x_{22} = 2$, $x_{23} = 3$, $x_{33} = 2$, $x_{34} = 4$
 $x_{11} = 2$, $x_{21} = 2$, $x_{22} = 3$, $x_{23} = 2$, $x_{33} = 2$, $x_{34} = 4$

Score: 0

No, the answer is incorrect.

Accepted Answers: $x_{11} = 2$, $x_{21} = 1$, $x_{22} = 3$, $x_{23} = 2$, $x_{33} = 2$, $x_{34} = 5$

3) By using Vogel's method, the optimum basic feasible solution of the following transportation problem

1 point

0 points

1 point

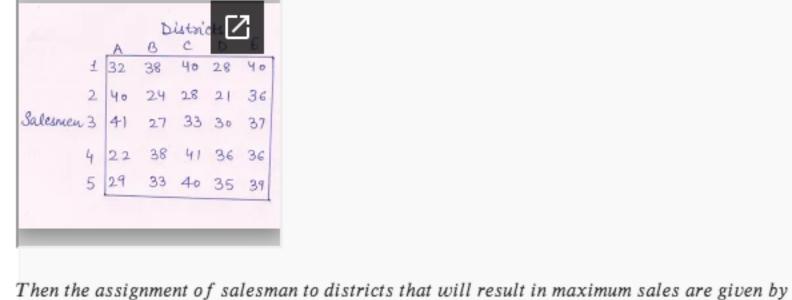


4)

$$x_{12} = 18$$
, $x_{13} = 1$, $x_{21} = 12$, $x_{24} = 23$, $x_{31} = 6$, $x_{33} = 30$
 $x_{12} = 18$, $x_{13} = 1$, $x_{21} = 10$, $x_{24} = 25$, $x_{31} = 6$, $x_{33} = 30$
 $x_{12} = 18$, $x_{13} = 1$, $x_{21} = 12$, $x_{24} = 25$, $x_{31} = 4$, $x_{33} = 30$
 $x_{12} = 18$, $x_{13} = 1$, $x_{21} = 10$, $x_{24} = 25$, $x_{31} = 6$, $x_{33} = 30$
No, the answer is incorrect.
Score: 0
Accepted Answers:
 $x_{12} = 18$, $x_{13} = 1$, $x_{21} = 12$, $x_{24} = 25$, $x_{31} = 4$, $x_{33} = 30$

the marketing manager estimates that sales per month (in hundred rupees) for each salesmen in each district would be as follows:

A marketing manner has 5 salesmen and sales - districts. Considering the capabilities of the salesmen and the nature of districts,



$$1 \rightarrow B$$
, $2 \rightarrow E$, $3 \rightarrow A$, $4 \rightarrow C$, $5 \rightarrow D$
 $1 \rightarrow B$, $2 \rightarrow A$, $3 \rightarrow E$, $4 \rightarrow C$, $5 \rightarrow D$
 $1 \rightarrow B$, $2 \rightarrow E$, $3 \rightarrow A$, $4 \rightarrow D$, $5 \rightarrow C$
 $1 \rightarrow B$, $2 \rightarrow A$, $3 \rightarrow E$, $4 \rightarrow D$, $5 \rightarrow C$
No, the answer is incorrect.

Accepted Answers: $1 \rightarrow B$, $2 \rightarrow A$, $3 \rightarrow E$, $4 \rightarrow C$, $5 \rightarrow D$

Score: 0

5) The assignment of the following maximization assignment problem



is given by

$$J o D, \ K o A, \ L o C, \ M o B$$
 $J o B, \ K o D, \ L o C, \ M o A$
 $J o D, \ K o B, \ L o A, \ M o C$
 $J o A, \ K o D, \ L o B, \ M o C$

No, the answer is incorrect. Score: 0

Accepted Answers:

 $J \rightarrow D, K \rightarrow A, L \rightarrow C, M \rightarrow B$