

ECO314

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1. In using transportation model the following major assumptions are made EXCEPT

Uniqueness of route or mode of transportation between each source and destination

The homogeneity of materials to be transported.

Equality of transportation cost per unit.

--->> The variety of materials to be transported

2. For solving the _____ problem we use assignment technique or Hungarian method or Flood's technique

--->> assignment

transportation

linear

optimisation

3. How is an unbalanced transportation problem resolved?

By creating a dependent variable for the difference

By creating an independent variable for the difference

--->> By creating a dummy variable for the difference

By creating a surplus variable for the difference

4. One of the following is NOT a transportation problem

The problem may have rectangular matrix or square matrix.

The rows and columns may have any number of allocations depending on the rim conditions.

The basic feasible solution must have $m + n - 1$ allocations

--->> Every column and row must have at least one zero.

5. Which of the following is NOT an area in industrial application of linear programming?

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Product mix problem

Blending problems

Production scheduling problems

6. When developing an initial basic feasible solution, there are different methods that can be used. Which of the following is NOT one of them?

The North West Corner Method

--->> Smith's Approximation Method

The Least Cost Method

Vogel's Approximation Method

7. Which of the followings is NOT an assumption in linear programming models ?

Proportionality

Additivity

--->> Uncertainty

Continuity

8. Linear programming deals with the optimisation (maximisation or minimisation) of a function of variables known as _____ function, subject to a set of linear equations and/or inequalities known as _____.

objective/constants

--->> objective/constraints

subjective/constraints

adjective/constraints

9. This condition arises when the number of allocated cell does not satisfy the $m + n - 1$ criterion

Degeneracy

--->> Decadence

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Dissipation

10. One of the following is NOT an assignment problem

Every column and row must have at least one zero.

And one machine is assigned to one job and vice versa

--->> The rows and columns may have any number of allocations depending on the rim conditions.

Here row represents jobs or machines and columns represents machines or jobs

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