



MC200402101: SOBIA SEHER

Time Left 88
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 8 of 10 (Start time: 06:04:44 PM, 09 March 2022)

Total Marks: 1

The solution of an Assignment problem can be arrived by using which of the following method?

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Select the correct option

- | | |
|-----------------------|------------------------------|
| <input type="radio"/> | Hungarian's method |
| <input type="radio"/> | North West corner method |
| <input type="radio"/> | Least Cost method |
| <input type="radio"/> | Vogel's approximation method |

[Click to Save Answers & Move to Next Question](#)

Question # 1 of 10 (Start time: 06:20:40 PM, 09 March 2022)

If a balanced Transportation problem with 'm' sources and 'n' sinks then degeneracy will arise only if there are less than ----- independent allocations in the solution.

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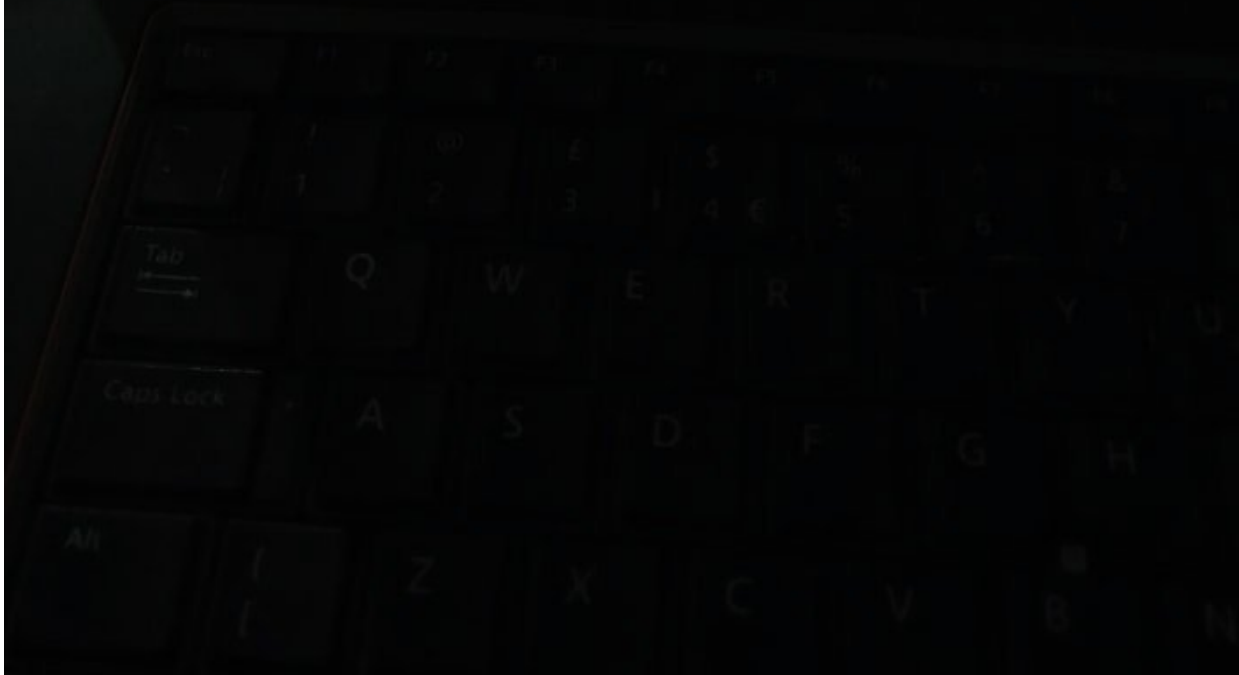
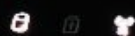
Select the correct option

- | | |
|-----------------------|-------|
| <input type="radio"/> | m-n-2 |
| <input type="radio"/> | m-n-4 |
| <input type="radio"/> | m-n-1 |
| <input type="radio"/> | m-n-3 |

Queuing models measure the effect of-----.

Select the correct option

- Length of queue
- Effect of uncertainty on the behavior of the queuing system
- Random service
- Random arrivals





MC200402101: SOBIA SEHER

Time Left 89
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 6 of 10 (Start time: 06:02:28 PM, 09 March 2022)

Total Marks: 1

Hungarian Algorithm is used to solve _____ problem.

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Select the correct option

- | | |
|-----------------------|----------------|
| <input type="radio"/> | none of these |
| <input type="radio"/> | transportation |
| <input type="radio"/> | assignment |
| <input type="radio"/> | both a and b |

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To convert an Assignment problem into a maximization problem, which of the following operations would have to apply?

Select the correct option



Multiply all the elements of assignment matrix by '-1'



Deduct smallest element in the matrix from all other elements.



Deduct all elements of the row from highest element in that row



Deduct smallest element in any row form all other elements of the row.



MC206201291- MUHAMMAD RIZWAN

Time Left 86 sec(s)

MTH601: Quiz No 3

Quiz Start Time: 07:20 PM, 09 March 2022

Question # 8 of 10 (Start time: 07:27:12 PM, 09 March 2022)

Total Marks: 1

In the assignment problem, the decision variable 'xij' can attain which of the following value?

Select the correct option



Only zero



Any arbitrary non-negative



Only '1'



Zero or '1'

Submit Your Answer & Move to Next Question

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MC200402101: SOBIA SEHER

Time Left 82
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 3 of 10 (Start time: 06:00:06 PM, 09 March 2022)

Total Marks: 1

If a balanced Transportation problem with '7' sources and '6' sinks then its non-degenerate basic feasible solution will have----- independent allocations.

Select the correct option

- | | |
|-----------------------|----|
| <input type="radio"/> | 11 |
| <input type="radio"/> | 10 |
| <input type="radio"/> | 12 |
| <input type="radio"/> | 13 |

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In the assignment problem, the cost matrix is _____
--.

Select the correct option

- rectangular
- square
- singular
- non-singular

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MC200402101: SOBIA SEHER

Time Left 89
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 7 of 10 (Start time: 06:04:03 PM, 09 March 2022)

Total Marks: 1

Which of the following department is more responsible for the development of queuing theory?

Select the correct option

- | | |
|-----------------------|----------------------|
| <input type="radio"/> | Railway station |
| <input type="radio"/> | Health department |
| <input type="radio"/> | Municipal office |
| <input type="radio"/> | Telephone department |

[Click to Save Answers & View to Next Question](#)



MC200402101: SOBIA SEHER

Time Left 88
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 1 of 10 (Start time: 05:58:01 PM, 09 March 2022)

Total Marks: 1

To convert an Assignment problem into a maximization problem, which of the following operations would have to apply?

Select the correct option

- Multiply all the elements of assignment matrix by '-1'
- Deduct smallest element in the matrix from all other elements.
- Deduct smallest element in any row from all other elements of the row.
- Deduct all elements of the row from highest element in that row

[Click to Save Answer & Move to Next Question](#)



MC200402101: SOBIA SEHER

Time Left 89 sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 4 of 10 (Start time: 06:00:58 PM, 09 March 2022)

Total Marks: 1

When a doctor attends to an emergency case leaving his regular service is called-----

Select the correct option

- | | |
|-----------------------|----------------------------------|
| <input type="radio"/> | Balking |
| <input type="radio"/> | Reneging |
| <input type="radio"/> | Non-Pre-Emptive queue discipline |
| <input type="radio"/> | Pre-emptive queue discipline |

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MC206201291- MUHAMMAD RIZWAN

Time Left 87 min(s)

MTH601-Quiz No 3

Quiz Start Time: 07:20 PM, 09 March 2022

Question # 4 of 10 (Start time: 07:22:53 PM, 09 March 2022)

Total Marks: 1

Which of the following replacement model is said to be probabilistic model?

Select the correct option

- When money value changes with time
- When money value does not change with time and time is a continuous variable
- Preventive maintenance policy
- When money value does not change with time and time is a discrete variable

[Click on Question & Answer to see the question](#)

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MC200402101: SOBIA SEHER

Time Left 89
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 5 of 10 (Start time: 06:01:31 PM, 09 March 2022)

Total Marks: 1

Which of the following cost is irrelevant to replacement analysis?

Select the correct option

- | | |
|-----------------------|----------------------------------|
| <input type="radio"/> | Maintenance cost of the machine |
| <input type="radio"/> | Operating cost of the machine |
| <input type="radio"/> | Machine hour rate of the machine |
| <input type="radio"/> | Purchase cost of the machine |

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MC200402101: SOBIA SEHER

Time Left 87
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 2 of 10 (Start time: 05:59:00 PM, 09 March 2022)

Total Marks: 1

To balance Assignment matrix we have to-----.

Select the correct option

- open a Dummy column
- you cannot balance the assignment matrix
- open either a dummy row or column depending on the situation
- open a Dummy row

[Click to Save Answer & Move to Next Question](#)



During the substitution process of determining the Transportation Cost 'xij' in a balanced Transportation problem, no----- operation is used as the coefficients of 'xij' are '0' or '1'. Due to this property, every basic feasible solution have only non-negative integral values.

Select the correct option

- Division
- Addition

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The configuration of an assignment problem is similar to that of _____ problem.

Select the correct option



Queuing



Inventory



Network flow



Transportation



To solve the degeneracy in a transportation problem we have to-----.

Select the correct option

- put allocation in one of the empty cell with zero value
- put a small element epsilon in any one of the empty cell
- apply duality principle
- allocate the smallest element epsilon in such a cell

Click to view answer (1 of 10) of this question





MC200400585: SADAF IQBAL

Time Left 89 sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:42 PM, 09 March 2022

Question # 6 of 10 (Start time: 05:47:33 PM, 09 March 2022)

Total Marks: 1

The similarity between Assignment Problem and Transportation problem is-----.

Select the correct option

- both are square matrices
- both have objective function and non negativity constraints
- both can be solved by graphical method
- both are rectangular matrices

Click to view answer (1 time left)





MC200400585: SADAF IQBAL

Time Left 88 sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:42 PM, 09 March 2022

Question # 3 of 10 (Start time: 05:44:41 PM, 09 March 2022)

Total Marks: 1

The column, which is introduced in the matrix to balance an unbalanced Transportation problem, is known as-----

Select the correct option

- | | |
|----------------------------------|--------------|
| <input type="radio"/> | key column |
| <input checked="" type="radio"/> | dummy Column |
| <input type="radio"/> | idle column |
| <input type="radio"/> | slack column |

Only one Correct Answer (1 of 10) is Right





MC200400585: SADAF IQBAL

Time Left 87 sec(s)

MTH601:Quiz No 3

Quiz Start Time: 05:42 PM, 09 March 2022

Question # 2 of 10 (Start time: 05:43:44 PM, 09 March 2022)

Total Marks: 1

If there is infinite number of servers then all the customers are served _____ on arrival.

Select the correct option



instantaneously



randomly

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If the total cost of the assignment for all the tasks is equal to the sum of the costs for each agent, then the problem is called _____.

Select the correct option

- linear assignment
- optimization
- unbalanced assignment
- simplex

Click on Save Answer or Move to Next Question

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MC200400585: SADAF IQBAL

Time Left 87 sec(s)

MTH601:Quiz No 3

Quiz Start Time: 05:42 PM, 09 March 2022

Question # 1 of 10 (Start time: 05:42:40 PM, 09 March 2022)

Total Marks: 1

Which of the following replacement policies is considered to be dynamic in nature?

Select the correct option

- When money value changes with time
- Time is continuous variable and the money value does not change with time
- When money value does not change with time and time is a discrete variable
- When money value remains constant for some time and then goes on changing with time

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MC200405401: RABIA BASRI

MTH601: Quiz No 3

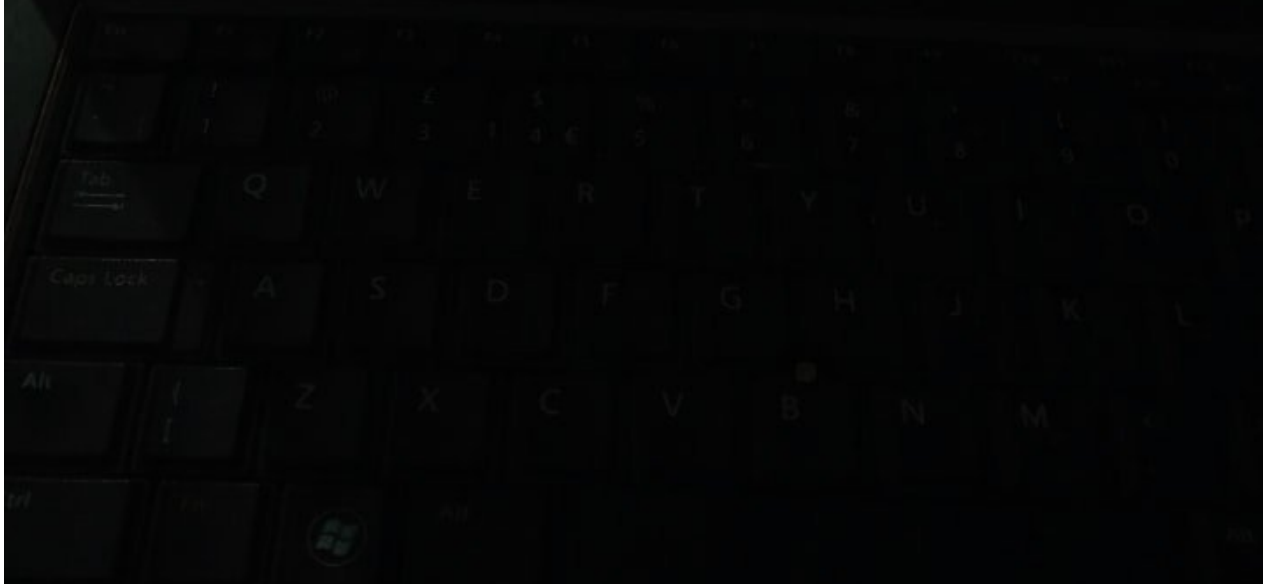
Question # 3 of 10 (Start time: 06:23:33 PM, 09 March 2022)

The column, which is introduced in the matrix to balance an unbalanced Transportation problem, is known as-----

Answer input area

Select the correct option

- key column
- idle column
- slack column
- dummy Column



Question # 10 of 10 (Start time: 05:41:18 PM, 09 March 2022)

The row, which is introduced in the matrix to balance an unbalanced Transportation problem, is known as _____.

Select the correct option

 dummy row idle row key row slack row

Question # 9 of 10 (Start time: 05:40:18 PM, 09 March 2022)

Total

If the total cost of the assignment for all the tasks is equal to the sum of the costs for each agent, then the problem is called _____.

Select the correct option

optimization

linear assignment

simplex

unbalanced assignment



The configuration of an assignment problem is similar to that of _____ problem.

Select the correct option

- | | |
|-----------------------|----------------|
| <input type="radio"/> | Inventory |
| <input type="radio"/> | Network flow |
| <input type="radio"/> | Transportation |
| <input type="radio"/> | Queuing |

Go to the End / Answer / Move to Next Question

Question # 9 of 10 (Start time: 05:40:18 PM, 09 March 2022)

Total

If the total cost of the assignment for all the tasks is equal to the sum of the costs for each agent, then the problem is called _____.

Select the correct option

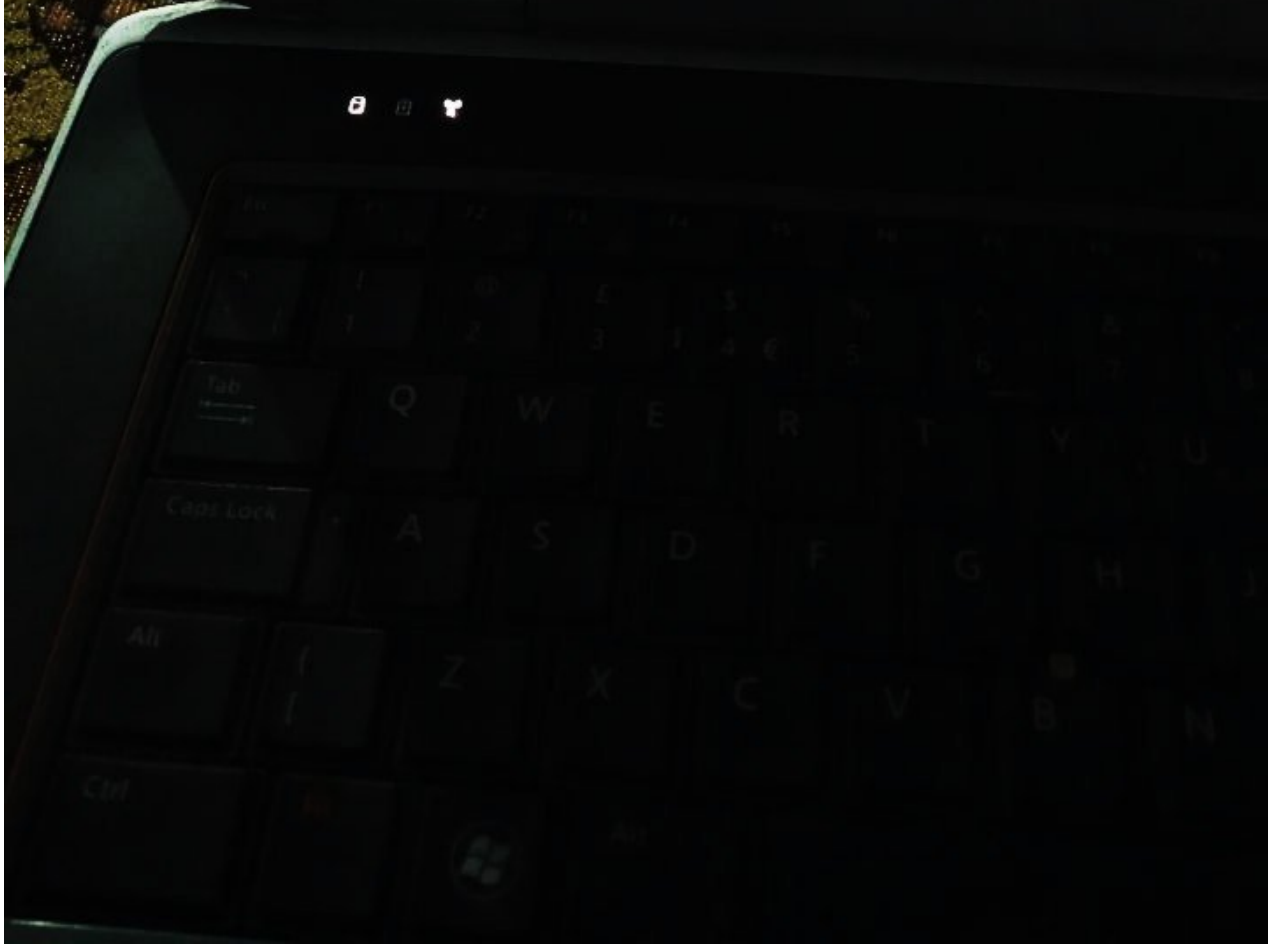
- optimization
- linear assignment
- simplex
- unbalanced assignment

Question # 7 of 10 (Start time: 06:26:44 PM, 09 March 2022)

The similarity between Assignment Problem and Transportation problem is-----.

Select the correct option

- both can be solved by graphical method
- both are rectangular matrices
- both have objective function and non negativity constraints
- both are square matrices



Question # 6 of 10 (Start time: 06:25:55 PM, 09 March 2022)

In the assignment problem, the cost matrix is -----

Select the correct option

- square
- singular
- rectangular
- non-singular

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MC200402101: SOBIA SEHER

Time Left 89 sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 9 of 10 (Start time: 06:05:25 PM, 09 March 2022)

Total Marks: 1

In a queue, the arrival pattern can be expressed in terms of -
-----.

Select the correct option

- | | |
|-----------------------|----------------------------|
| <input type="radio"/> | Probabilities |
| <input type="radio"/> | customer behavior |
| <input type="radio"/> | exact continuous variables |
| <input type="radio"/> | number of servers |

[Click to Save Answer & Move to Next Question](#)



MC200402101: SOBIA SEHER

Time Left 89
sec(s)

MTH601: Quiz No 3

Quiz Start Time: 05:58 PM, 09 March 2022

Question # 10 of 10 (Start time: 06:07:34 PM, 09 March 2022)

Total Marks: 1

For the project of a firm, if '5' sales persons are assigned '5' different sales territories, then in how many ways a single territory can be assigned to a single sale person?

Select the correct option

<input type="radio"/>	5
<input type="radio"/>	10
<input type="radio"/>	120
<input type="radio"/>	25

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Question # 8 of 10 (Start time: 05:39:27 PM, 09 March 2022)

When a doctor attends to an emergency case leaving his regular service is called-----

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Select the correct option

- Reneging
- Non-Pre-Emptive queue discipline
- Balking
- Pre-emptive queue discipline



Which of the following is the correct assumption for replacement policy when money value does not change with time?

Select the correct option

- No Capital cost
- No scrap value
- Constant scrap value
- Zero maintenance cost



For an assignment problem, if the numbers of agents and tasks are _____, then the problem is called _____ assignment.

Select the correct option

- equal, unbalanced
- unequal, unbalanced
- none of these
- unequal, balanced



For any Replacement Model, which of the following maintenance policies is not used in old age stage of a machine?

Select the correct option

- | | |
|-----------------------|---|
| <input type="radio"/> | Replacement |
| <input type="radio"/> | Scheduled preventive maintenance |
| <input type="radio"/> | Reconditioning |
| <input type="radio"/> | Operate up to failure and do corrective maintenance |

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Queuing models measure the effect of-----.

Select the correct option

- Length of queue
- Random service
- Effect of uncertainty on the behavior of the queuing system
- Random arrivals

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Question # 9 of 10 (Start time: 05:40:18 PM, 09 March 2022)

Total

If the total cost of the assignment for all the tasks is equal to the sum of the costs for each agent, then the problem is called _____.

Select the correct option

optimization

linear assignment

simplex

unbalanced assignment

In assignment problems, the tasks are assigned to the individuals in such a way that the total time to do a work is _____.

Select the correct option

- maximized
- minimized
- minimized or maximized
- all of above

The solution of an Assignment problem can be arrived by using which of the following method?

Select the correct option

- Hungarian's method
- Least Cost method
- North West corner method
- Vogel's approximation method

There are _____ permutations possible for allocating 3 jobs to 3 contractors.

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Select the correct option

- | | |
|-----------------------|---------------|
| <input type="radio"/> | 6 |
| <input type="radio"/> | none of these |
| <input type="radio"/> | 6! |
| <input type="radio"/> | 3 |

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To solve the degeneracy in a transportation problem we have to————.

Select the correct option

- allocate the smallest element epsilon in such a cell
- put allocation in one of the empty cell with zero value
- apply duality principle
- put a small element epsilon in any one of the empty cell

[Click to View Answer](#) | [Move to Next Question](#)

For the project of a firm, if '5' sales persons are assigned '5' different sales territories, then in how many ways a single territory can be assigned to a single sale person?

Select the correct option

- | | |
|----------------------------------|-----|
| <input checked="" type="radio"/> | 120 |
| <input type="radio"/> | 25 |
| <input type="radio"/> | 5 |
| <input type="radio"/> | 10 |

Which of the following type of failure that usually occurs in old age of the machine and hence become a reason of replacement?

Select the correct option

- | | |
|-----------------------|------------------|
| <input type="radio"/> | Chance failure |
| <input type="radio"/> | Wear-out failure |
| <input type="radio"/> | Early failure |
| <input type="radio"/> | Random failure |

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In any Replacement Model a contractual maintenance or agreement maintenance with manufacturer is suitable for equipment, which is -----

Select the correct option

in its infant state

when machine is old one

scrapped

None of the above

If the cost matrix in an Assignment problem is not square then which the following modification will be made to balance the given problem?

Select the correct option

- Add a dummy row(column) with positive cost elements
- Add a dummy row(column) with arbitrary(including negative or positive) cost elements
- Add a dummy row(column) with negative cost elements
- Add a dummy row(column) with zero cost elements

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For an assignment problem, if the numbers of agents and tasks are _____, then the problem is called _____ assignment.

Select the correct option

unequal, balanced

equal, balanced

none of these

equal, unbalanced