

Question # 1 of 10 (Start time: 08:14:14 PM, 09 March 2022)

Total Marks: 1

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

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Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | Length of queue |
| <input type="radio"/> | Random arrivals |
| <input type="radio"/> | Random service |
| <input checked="" type="radio"/> | Effect of uncertainty on the behavior of the queuing system |

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 08:15:40 PM, 09 March 2022)

Total Marks: 1

While solving an Assignment problem by Hungarian's method, the horizontal and vertical lines drawn to cover all zeros of modified cost matrix must be -----.

Select the correct option



$m + n$ (m and n are number of rows and columns)



equal to number of rows or columns



equal to each other



must be equal to $m.n$ (where m and n are number of rows and columns)

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Question # 3 of 10 (Start time: 08:17:17 PM, 09 March 2022)

Total Marks: 1

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

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Select the correct option



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



allocate the smallest element epsilon in such a cell

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 08:18:05 PM, 09 March 2022)

Total Marks: 1

Which of the following cost is irrelevant to replacement analysis?

Select the correct option

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

Question # 5 of 10 (Start time: 08:19:04 PM, 09 March 2022)

Total Marks: 1

Which of the following type of Elementary matrix operations are performed while solving an Assignment problem by Hungarian's method?

Select the correct option

- | | | |
|----------------------------------|-----------------------|---|
| <input type="radio"/> | Column operations | / |
| <input type="radio"/> | Row operations | / |
| <input checked="" type="radio"/> | Linear Transformation | / |
| <input type="radio"/> | Determinant operation | / |

Question # 6 of 10 (Start time: 08:21:02 PM, 09 March 2022)

Total Marks: 1

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

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Select the correct option

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

Question # 7 of 10 (Start time: 08:22:07 PM, 09 March 2022)

Total Marks: 1

Group replacement policy is most suitable for -----.

Select the correct option



infant machines



trucks



new cars



street light bulbs

Question # 8 of 10 (Start time: 08:22:38 PM, 09 March 2022)

Total Marks: 1

While solving an Assignment problem by Hungarian's method, in the modified cost matrix if the minimum number of horizontal and vertical lines to cover zeros are not equal to the number of rows (or columns), then which of the following operation is done?

Select the correct option

- | | | |
|----------------------------------|---|---|
| <input type="radio"/> | Subtract the smallest element from the next highest number in the element. | / |
| <input type="radio"/> | Subtract smallest element of uncovered rows from all other elements of uncovered cells | / |
| <input checked="" type="radio"/> | Subtract the smallest element from the element at the intersection of horizontal and vertical line. | / |
| <input type="radio"/> | Add smallest element of the uncovered cells to the elements to the line | / |

Question # 9 of 10 (Start time: 08:23:58 PM, 09 March 2022)

Total Marks: 1

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 _____.

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Select the correct option

<input type="radio"/>	unbalanced assignment	/
<input type="radio"/>	simplex	/
<input type="radio"/>	linear assignment	/
<input checked="" type="radio"/>	optimization	/

Question # 10 of 10 (Start time: 08:24:59 PM, 09 March 2022)

Total Marks: 1

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

Select the correct option



both are rectangular matrices



both have objective function and non negativity constraints



both can be solved by graphical method



both are square matrices

Question # 1 of 10 (Start time: 08:27:05 PM, 09 March 2022)

Total Marks: 1

Which of the following represents "Arrival->Service->Service->Service->Out->"?

Select the correct option



Multi channel single-phase system



Single channel multi phase system

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Multi channel multi phase system



Single Channel Single Phase system

Question # 2 of 10 (Start time: 08:28:16 PM, 09 March 2022)

Total Marks: 1

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

Select the correct option



apply duality principle



put a small element epsilon in any one of the empty cell



put allocation in one of the empty cell with zero value



allocate the smallest element epsilon in such a cell

Question # 3 of 10 (Start time: 08:29:07 PM, 09 March 2022)

Total Marks: 1

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

Select the correct option



rectangular



singular



square



non-singular

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Question # 4 of 10 (Start time: 08:29:59 PM, 09 March 2022)

Total Marks: 1

The assignment problem is unbalanced if the cost matrix is not a -----matrix.

Select the correct option

<input type="radio"/>	rectangular	/
<input type="radio"/>	non-singular	/
<input checked="" type="radio"/>	square	/
<input type="radio"/>	singular	/

Question # 5 of 10 (Start time: 08:30:45 PM, 09 March 2022)

Total Marks: 1

When money value changes with time at Ten percent(10%), then Power Worth Factor(PWF) for first year is-----.

Select the correct option

- | | | |
|----------------------------------|-------|---|
| <input type="radio"/> | 0.852 | / |
| <input checked="" type="radio"/> | 1 | / |
| <input type="radio"/> | 0.909 | / |
| <input type="radio"/> | 0.9 | / |

Question # 6 of 10 (Start time: 08:31:29 PM, 09 March 2022)

Total Marks: 1

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

Select the correct option

<input checked="" type="radio"/>	unequal, unbalanced	Download More Quizzes Files From VUAnswer.com
<input type="radio"/>	none of these	
<input type="radio"/>	unequal, balanced	
<input type="radio"/>	equal, unbalanced	

Question # 7 of 10 (Start time: 08:32:29 PM, 09 March 2022)

Total Marks: 1

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

Select the correct option

<input checked="" type="radio"/>	in its infant state	/
<input type="radio"/>	None of the above	/
<input type="radio"/>	scrapped	/
<input type="radio"/>	when machine is old one	/

Question # 8 of 10 (Start time: 08:33:18 PM, 09 March 2022)

Total Marks: 1

Suppose that a taxi firm has four taxis (the agents) available, and four customers (the tasks) wishing to be picked up as soon as possible. The firm prides itself on speedy pickups, so for each taxi the cost of picking up a particular customer will depend on the time taken for the taxi to reach the pickup point. This is _____ problem.

Select the correct option

<input type="radio"/>	unbalanced assignment	/
<input type="radio"/>	linear programming	/
<input checked="" type="radio"/>	transportation	/
<input type="radio"/>	balanced assignment	/

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Question # 9 of 10 (Start time: 08:34:24 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 checked="" type="radio"/>	dummy Column	/
<input type="radio"/>	key column	/
<input type="radio"/>	slack column	/
<input type="radio"/>	idle column	/

Question # 10 of 10 (Start time: 08:35:16 PM, 09 March 2022)

Total Marks: 1

In a Replacement Model, a machine is replaced with average running cost -----

Select the correct option

- | | | |
|----------------------------------|---|---|
| <input type="radio"/> | if current period is greater than that of next period | / |
| <input type="radio"/> | till current period is greater than that of next period | / |
| <input type="radio"/> | is not equal to current running cost | / |
| <input checked="" type="radio"/> | if the current period is less than that of next period | / |

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