

RIZ MUGHAL

QUIZ MASTER

Grand Quiz(MTH601)

100% correct solution.

For more information you can visit my channel and for any type of help related to CS619 you can contact me.



YOUTUBE CHANNEL:

<https://www.youtube.com/channel/UCINsFwDiB62SValCcPDZbRQ/playlists>

FACEBOOK GROUP:

<https://www.facebook.com/groups/923887914750307>

Question # 1 of 30 (Start time: 01:06:58 AM, 31 December 2020)

Total Marks:

By putting the Replacement Rate ' $R = \infty$ ' and Shortage Cost ' $C_4 = \infty$ ' in the Economic Order Quantity (EOQ) of Manufacturing Model with allowed Shortage, then the result is -----

Select the correct option

- | | | |
|----------------------------------|---|----|
| <input checked="" type="radio"/> | EOQ of Wilson's Model | // |
| <input type="radio"/> | EOQ of Manufacturing Model without shortage | // |
| <input type="radio"/> | EOQ of Purchasing Model with allowed Shortage | // |
| <input type="radio"/> | Invariant | // |

Question # 2 of 30 (Start time: 01:07:22 AM, 31 December 2020)

The solution set of the constraint: $2x+3y>12$, will lie in ----- bisected by the line: $2x+3y=12$.

Select the correct option

<input type="radio"/>	origin side of half plane
<input checked="" type="radio"/>	opposite to the origin side in half plane
<input type="radio"/>	both half planes
<input type="radio"/>	first quadrant only

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Question # 3 of 30 (Start time: 01:07:39 AM, 31 December 2020)

Total Marks:

If the variance of the project length = 25, expected and scheduled times are 40 and 36 respectively, then the Standard Normal Variable of the given project is-----.

Select the correct option

- | | | |
|----------------------------------|-------|----|
| <input type="radio"/> | 0.80 | // |
| <input checked="" type="radio"/> | -0.80 | // |
| <input type="radio"/> | 0.16 | // |
| <input type="radio"/> | -0.16 | // |

Question # 4 of 30 (Start time: 01:08:01 AM, 31 December 2020)

Under which of the following condition, a mathematical Program would be non-linear?

Select the correct option



If least Objective function is non-linear



If both Objective function and constraints are non-linear

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Question # 5 of 30 (Start time: 01:08:13 AM, 31 December 2020)

Which of the following would be the objective of the cost per unit of producing certain cameras?

Select the correct option

- | | |
|----------------------------------|--------------|
| <input type="radio"/> | Maximization |
| <input checked="" type="radio"/> | Minimization |
| <input type="radio"/> | Inflection |
| <input type="radio"/> | Average |

Question # 6 of 30 (Start time: 01:08:26 AM, 31 December 2020)

Total Mark

In a development project, if an activity (i,j) of six days duration, starts late on 3rd day then which of the following will be its latest finish time?

Select the correct option

- | | |
|----------------------------------|----------|
| <input checked="" type="radio"/> | 9th day |
| <input type="radio"/> | 2nd day |
| <input type="radio"/> | 3rd day |
| <input type="radio"/> | 18th day |

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Question # 7 of 30 (Start time: 01:08:44 AM, 31 December 2020)

Solution of a Linear Programming problem is found by ----- methods.

Select the correct option

- | | |
|----------------------------------|----------------|
| <input type="radio"/> | Analytical |
| <input type="radio"/> | Probabilistic |
| <input checked="" type="radio"/> | Iterative |
| <input type="radio"/> | Pure algebraic |

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Question # 8 of 30 (Start time: 01:08:57 AM, 31 December 2020)

Total Marks:

In a development project, if an activity (q,r) of five days duration, starts late on 2nd day then which of the following will be its latest finish time?

Select the correct option

- | | | |
|----------------------------------|----------|----|
| <input type="radio"/> | 3rd day | // |
| <input type="radio"/> | 4th day | // |
| <input checked="" type="radio"/> | 7th day | // |
| <input type="radio"/> | 10th day | // |

Question # 9 of 30 (Start time: 01:09:13 AM, 31 December 2020)

Total Marks: 1

Objective of inventory control is to balance between the advantage of having inventories and the ----- of carrying them to arrive at an optimal level of inventories to minimize the total inventory cost.

Select the correct option

- | | | |
|----------------------------------|----------------|----|
| <input type="radio"/> | demand | // |
| <input type="radio"/> | profit | // |
| <input checked="" type="radio"/> | cost | // |
| <input type="radio"/> | transportation | // |

Question # 10 of 30 (Start time: 01:09:26 AM, 31 December 2020)

Total Marks

If the annual demand of a product is 10000 items, and its set up and inventory costs are 200 and 100 respectively then its economic order quantity is -----provided that shortage is fulfilled INSTANTANEOUSLY.

Select the correct option

- | | |
|----------------------------------|-------------|
| <input checked="" type="radio"/> | 200 units |
| <input type="radio"/> | 100 units |
| <input type="radio"/> | 20000 units |
| <input type="radio"/> | 40000 units |

Question # 11 of 30 (Start time: 01:09:40 AM, 31 December 2020)

The task which is executed by the usage of resources and time is called _____. Select correct option.

Select the correct option

- | | |
|----------------------------------|----------|
| <input type="radio"/> | node |
| <input type="radio"/> | event |
| <input type="radio"/> | project |
| <input checked="" type="radio"/> | activity |

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Question # 12 of 30 (Start time: 01:09:53 AM, 31 December 2020)

Which of the following is first step to model a linear programming problem?

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | Identifying the objective function |
| <input type="radio"/> | Identifying the non-negative constraints |
| <input checked="" type="radio"/> | Identifying the unknown decision variables |
| <input type="radio"/> | Identifying all the restrictions |

Question # 13 of 30 (Start time: 01:10:08 AM, 31 December 2020)

For a LP problem say:Max:z=x+y,under the constraints x,y>=0, the feasible region would be-----.

Select the correct option

- | | |
|----------------------------------|------------------------|
| <input type="radio"/> | empty |
| <input type="radio"/> | all xy-plane |
| <input checked="" type="radio"/> | all the first quadrant |
| <input type="radio"/> | point(0,0) |

Question # 14 of 30 (Start time: 01:10:26 AM, 31 December 2020)

Total Marks:

While applying Simplex method to a LP of minimization type, we proceed stepwise from one -----solution to another in such a way that the objective function always increases its value.

Select the correct option

- | | | |
|----------------------------------|--------------------|----|
| <input type="radio"/> | optimal | // |
| <input type="radio"/> | non-basic feasible | // |
| <input checked="" type="radio"/> | basic feasible | // |
| <input type="radio"/> | degenerate | // |

Question # 15 of 30 (Start time: 01:10:42 AM, 31 December 2020)

Total Marks:

In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50 and 120 respectively then which of the following is true about the 2nd month's requirement?

Select the correct option

- | | | |
|----------------------------------|---|----|
| <input type="radio"/> | 2nd month demand can be included in 1st month | // |
| <input checked="" type="radio"/> | 2nd month demand will have to fulfill in 2nd month | // |
| <input type="radio"/> | 2nd month demand can be included in 3rd month | // |
| <input type="radio"/> | 2nd month demand can be included in any month of the year | // |

Question # 16 of 30 (Start time: 01:10:57 AM, 31 December 2020)

Total Marks

A linear programming problem can be converted into a Transportation problem by restricting the coefficients ' a_{ij} ' to have the values-----

-

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Zero only |
| <input type="radio"/> | One only |
| <input checked="" type="radio"/> | either '0' or '1' |
| <input type="radio"/> | arbitrarily |

Question # 17 of 30 (Start time: 01:11:12 AM, 31 December 2020)

By which of the following method, any complex linear programming problem can be handled?

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Graphical method |
| <input checked="" type="radio"/> | Simplex method |
| <input type="radio"/> | Dual method |
| <input type="radio"/> | Degenerate method |

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Question # 18 of 30 (Start time: 01:11:37 AM, 31 December 2020)

Linear Programming is the backbone of Operations Research models due to-----

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | linearity of objective function and constraints |
| <input checked="" type="radio"/> | its fantastic computational efficiency |
| <input type="radio"/> | non-negativity of decision variables |
| <input type="radio"/> | unrestricted signs of decision variables |

Question # 19 of 30 (Start time: 01:11:48 AM, 31 December 2020)

Which of the following technique to solve the network flow diagrams, is event oriented?

Select the correct option

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Programme Evaluation and Review Technique |
| <input type="checkbox"/> | Critical Path Method |

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Question # 20 of 30 (Start time: 01:12:18 AM, 31 December 2020)

The parameters like demand and ordering quantity cost are quite ----- in the Probabilistic inventory models.

Select the correct option

<input type="radio"/>	certain
<input checked="" type="radio"/>	uncertain

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Question # 21 of 30 (Start time: 01:12:34 AM, 31 December 2020)

Total Marks

Which of the following correspond to the economic or physical quantities which are under the control of operations researcher while modeling a real life situation into a linear program?

Select the correct option

- | | |
|----------------------------------|--------------------|
| <input type="radio"/> | Objective function |
| <input type="radio"/> | Constraints |
| <input checked="" type="radio"/> | Decision variables |
| <input type="radio"/> | Linear function |

Question # 22 of 30 (Start time: 01:12:53 AM, 31 December 2020)

The word 'Linear' in Linear programming problem describes ----- between two or more variables.

Select the correct option

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | that a Correlation exists |
| <input type="radio"/> | a recurrence relation |
| <input checked="" type="radio"/> | a direct proportionate relation |
| <input type="radio"/> | an inverse proportionate relation |

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Question # 23 of 30 (Start time: 01:13:07 AM, 31 December 2020)

Which of the following method follows iterative procedure to solve a Linear Programming problem?

Select the correct option

<input checked="" type="checkbox"/>	Algebraic (Simplex)
<input type="checkbox"/>	Graphical

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Question # 24 of 30 (Start time: 01:13:30 AM, 31 December 2020)

Non-feasible solution----- associated with a given linear programming problem.

Select the correct option

- satisfy all the constraints
- does not satisfy all the constraints
- satisfy least one of the constraint
- does not satisfy least one of the constraint

Click t

Question # 25 of 30 (Start time: 01:13:46 AM, 31 December 2020)

In the graph of the Purchasing Model with shortages, the area under the horizontal axis represents -----.

Select the correct option

- | | |
|----------------------------------|-----------------------|
| <input type="radio"/> | carrying cost of item |
| <input type="radio"/> | set up cost of item |
| <input checked="" type="radio"/> | shortage cost of item |
| <input type="radio"/> | purchase cost of item |

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Question # 26 of 30 (Start time: 01:14:10 AM, 31 December 2020)

Total Mark

In a network flow diagram, two jobs (m,n) and (m,o) of '11' and '8' days duration leaves the node 'm' then which of the following will be Late start time for 'm', if it is provided that both (m,n) and (m,o) finish late on 14th and 10th day respectively?

Select the correct option

- | | |
|----------------------------------|---------|
| <input type="radio"/> | 6th day |
| <input checked="" type="radio"/> | 3rd day |
| <input type="radio"/> | 2nd day |
| <input type="radio"/> | 1st day |

[Click to Go to Previous Question](#) [Click to Go to Next Question](#)

Question # 27 of 30 (Start time: 01:14:26 AM, 31 December 2020)

Total Marks: 1

Which of the following distribution gives the probability of completing the assigned project by considering the expected time of any activity as random variable?

Select the correct option

<input type="radio"/>	Binomial	//
<input type="radio"/>	Poisson	//
<input type="radio"/>	Beta	//
<input checked="" type="radio"/>	Normal	//

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Question # 28 of 30 (Start time: 01:14:45 AM, 31 December 2020)

Delay in critical activities for a project management lead to _____.

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | project finish time will have to extend |
| <input type="radio"/> | more resources have to employed |
| <input type="radio"/> | project cost will increase |
| <input checked="" type="radio"/> | All above choices are equivalent |

Question # 29 of 30 (Start time: 01:14:58 AM, 31 December 2020)

Total Marks:

In the Dynamic Order Quantity problem if the ratio of Setup and Carrying Costs is '500' and the Demands of 2nd and 3rd months are 50 and 130 respectively then which of the following is true about the 2nd month's requirement?

Select the correct option

- | | | |
|----------------------------------|---|----|
| <input checked="" type="radio"/> | 2nd month demand can be included in 1st month | // |
| <input type="radio"/> | 2nd month demand will have to fulfill in 2nd month | // |
| <input type="radio"/> | 2nd month demand can be included in 3rd month | // |
| <input type="radio"/> | 2nd month demand can be included in any month of the year | // |

Question # 30 of 30 (Start time: 01:15:16 AM, 31 December 2020)

Total Marks:

In a network flow diagram, if two jobs 'a(l,n)' and 'b(m,n)' of '7' and '8' days durations respectively, start earlier simultaneously on 4th day, then the next activity containing 'n' as head event can't start until the entering activity ----- is completed.

Select the correct option

<input checked="" type="radio"/>	(m,n)	//
<input type="radio"/>	(l,n)	//
<input type="radio"/>	(m,l)	//
<input type="radio"/>	(l,m)	//