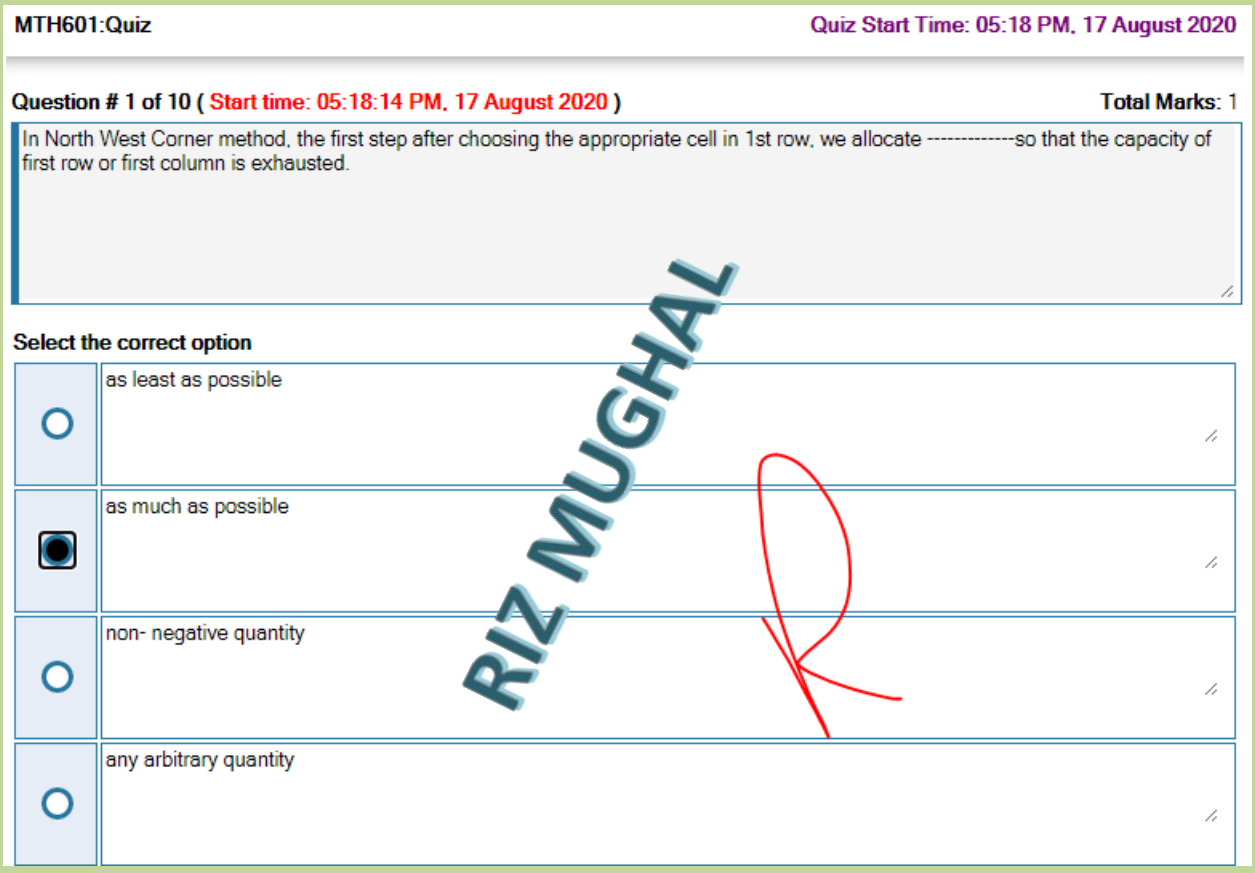
MTH601 Quiz

Solved by Rizwan Qadeer (Riz Mughal)
BSCS Completed
SQA Engineer
I can solve any quiz of any book from any Department
With 100% result
Guarantee marks

Youtube link:

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



MTH601:Quiz Quiz Start Time:

Question # 2 of 10 (Start time: 05:18:41 PM, 17 August 2020)

In two phase method process, first phase _____ the sum of artificial variables.

Select the correct option

- (●) minimize
- ( ) maximize
- ( ) maximize or minimize depending on the situation
- ( ) non of these

MTH601:Quiz Quiz Start Time: 05:18 PM, 17 August 2020

Question # 3 of 10 (Start time: 05:19:05 PM, 17 August 2020) **Total Marks:**

If an LP problem contains large number of constraints and a smaller number of variables then which of the following will reduce the computational burden in finding its solution?

Select the correct option

- ○ M-method
- ○ Two phase method
- ○ Graphical method
- ◉ Duality principle

MTH601:Quiz Quiz Start Time: 05:18 PM, 17

Question # 4 of 10 (Start time: 05:19:30 PM, 17 August 2020)

If initial basic solution is ----------, while solving an LP problem then no further iteration can be performed.

Select the correct option

- ○ degenerate
- ○ non-degenerate
- ○ feasible
- ◉ infeasible

MTH601:Quiz Quiz Start Time: 05:18 PM

Question # 5 of 10 (Start time: 05:19:55 PM, 17 August 2020)

Which of the following difficulty may found while attempting an LP problem by M-method?

Select the correct option

- It often leads to infeasible solution
- Computational error due to large value of M
- Degeneracy is inevitable
- Artificial do not leave the basis

MTH601:Quiz Quiz Start Time:

Question # 6 of 10 (Start time: 05:20:18 PM, 17 August 2020)

The cost coefficient of artificial variable in Objective function is ----------.

Select the correct option

- 0
- M
- 1
- > than 1

MTH601:Quiz — Quiz Start Time: 05:18 PM, 17 August 2020

Question # 7 of 10 (Start time: 05:20:38 PM, 17 August 2020) **Total Marks:** 1

While solving an LP problem by the Simplex method, in the standard table, the element at the intersection of key column and key row is called ---------- element.

Select the correct option

- ○ Entering
- ○ Leaving
- ○ Slack
- ◉ Pivot

MTH601:Quiz — Quiz Start Time: 05:18 PM, 17 August 2020

Question # 8 of 10 (Start time: 05:20:56 PM, 17 August 2020) **Total Marks:** 1

For finding the maximum profit in an enterprise of selling two products such that 'freezing' the sale of one product and keep selling the other. This scenario is studied under ----------.

Select the correct option

- ○ Un-boundedness
- ○ Duality
- ◉ Degeneracy
- ○ Artificial variable technique

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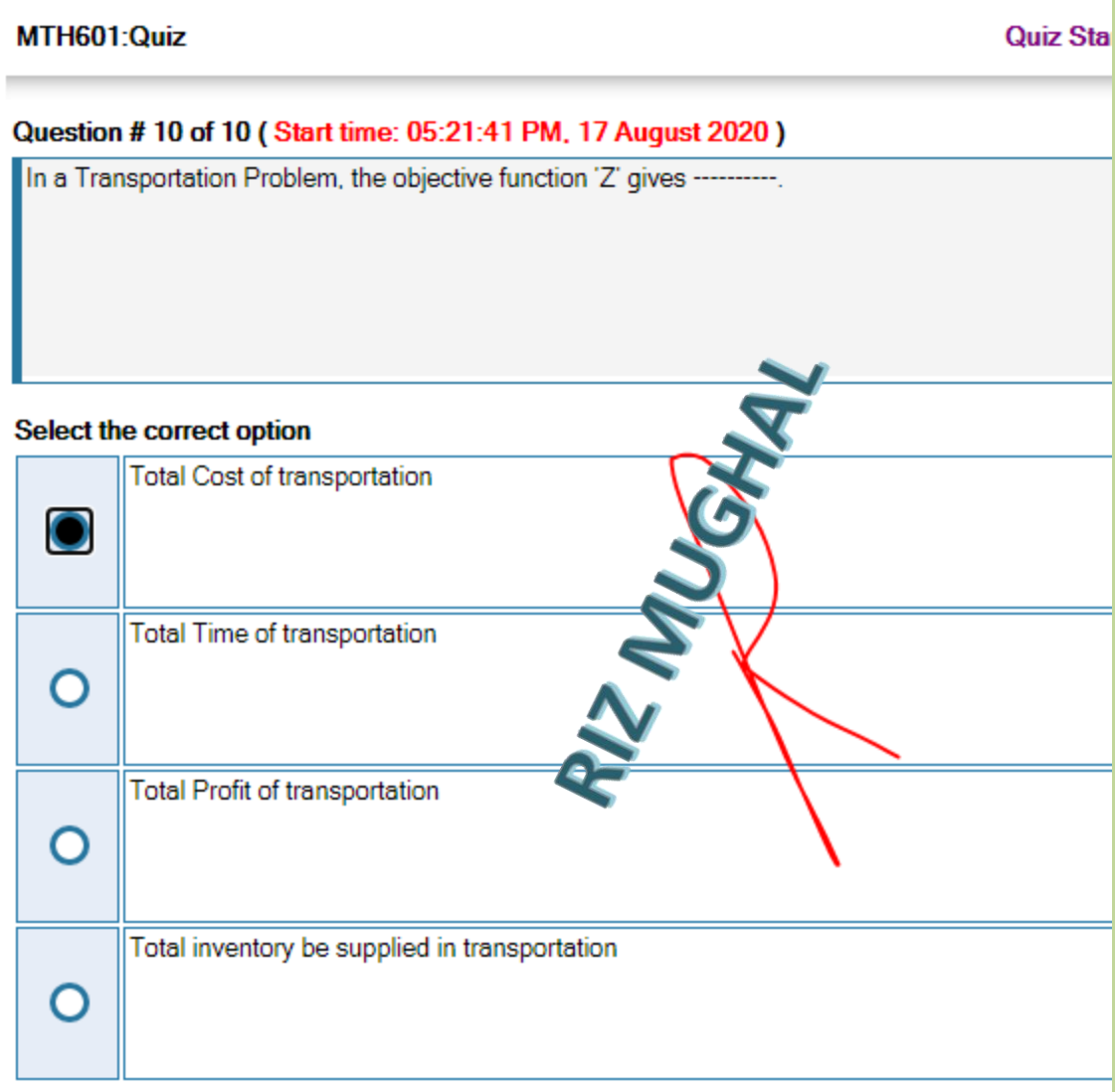
Quiz Start Time: 05:18

Question # 9 of 10 (Start time: 05:21:22 PM, 17 August 2020)

Which of the following will be an example of degenerate basic feasible solution for an LP problem?

Select the correct option

- (2,3-1)
- (0,2,1)
- (2,1,3)
- (-1,2,0)


MTH601:Quiz
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Question # 10 of 10 (Start time: 05:21:41 PM, 17 August 2020)
In a Transportation Problem, the objective function 'Z' gives ----------.
Select the correct option
Total Cost of transportation
Total Time of transportation
Total Profit of transportation
Total inventory be supplied in transportation
RIZ MUGHAL

2nd account

MTH601:Quiz

Question # 1 of 10 (Start time: 09:21:52 PM, 17 August 2020)

In a Transportation Problem, the objective function 'Z' gives ----------.

Select the correct option

- (●) Total Cost of transportation
- ( ) Total Time of transportation
- ( ) Total Profit of transportation
- ( ) Total inventory be supplied in transportation

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Quiz Start Time: 09:21 PM, 17 Au

Question # 2 of 10 (Start time: 09:22:13 PM, 17 August 2020) Tota

If an LP problem contains large number of constraints and a smaller number of variables then which of the following will reduc computational burden in finding its solution?

Select the correct option

- ○ M-method
- ○ Two phase method
- ○ Graphical method
- ◉ Duality principle

MTH601:Quiz — Quiz Start Time: 09:21 PM, 17 August 2020

Question # 4 of 10 (Start time: 09:22:56 PM, 17 August 2020) — **Total Marks:** 1

Which of the following order pair would minimize the objective function of the linear programming problem: $z = x + 5y$ subject to $x \geq 2, y \geq 0$?

Select the correct option

Reload Math Equations

- ○ (2,3)
- ◉ (2,0)
- ○ (0,3)
- ○ (0,0)

MTH601:Quiz Quiz Start Time: 09:21 PM, 17 August 202

Question # 5 of 10 (Start time: 09:23:19 PM, 17 August 2020) — **Total Marks:**

Under which of the following condition to solve an LP by using two phase method, we can't proceed for 2nd phase?

Select the correct option

- ○ Objective function of 1st phase has zero value.
- ◉ Objective function of 1st phase has positive value.

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Quiz Start Time: 09:21 PM, 17 August

Question # 6 of 10 (Start time: 09:23:45 PM, 17 August 2020) **Total Ma**

A balanced transportation model with '5'number of sources and '7' destinations has -------- number of constraint equations.

Select the correct option

- ○ 2
- ◉ 12
- ○ 35
- ○ 10

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Quiz Start Time: 09:21 PM, 17 August 2020

Question # 7 of 10 (Start time: 09:24:06 PM, 17 August 2020) **Total Marks:** 1

By Simplex method, to maximize 'Z = 2x +9y'of an LP problem, if 'z=0' for the initial iteration then for its next improved solution, which of the following would be the next entering variable?

Select the correct option

- ○ x>0
- ◉ y>0
- ○ x<0
- ○ y<0

MTH601:Quiz

Quiz Start Time: 09:21 PM, 17 August 20

Question # 8 of 10 (Start time: 09:24:24 PM, 17 August 2020) **Total Marks**

For North West Corner method, in the first row and first column, resource and sink contain '5' and '7' units respectively; then after allocating the appropriate amount 'x11' in the cell (1,1), we will move towards which of the following cell?

Select the correct option

- ○ (2,2)
- ○ (5,2)
- ○ (1,2)
- ◉ (2,1)

MTH601:Quiz

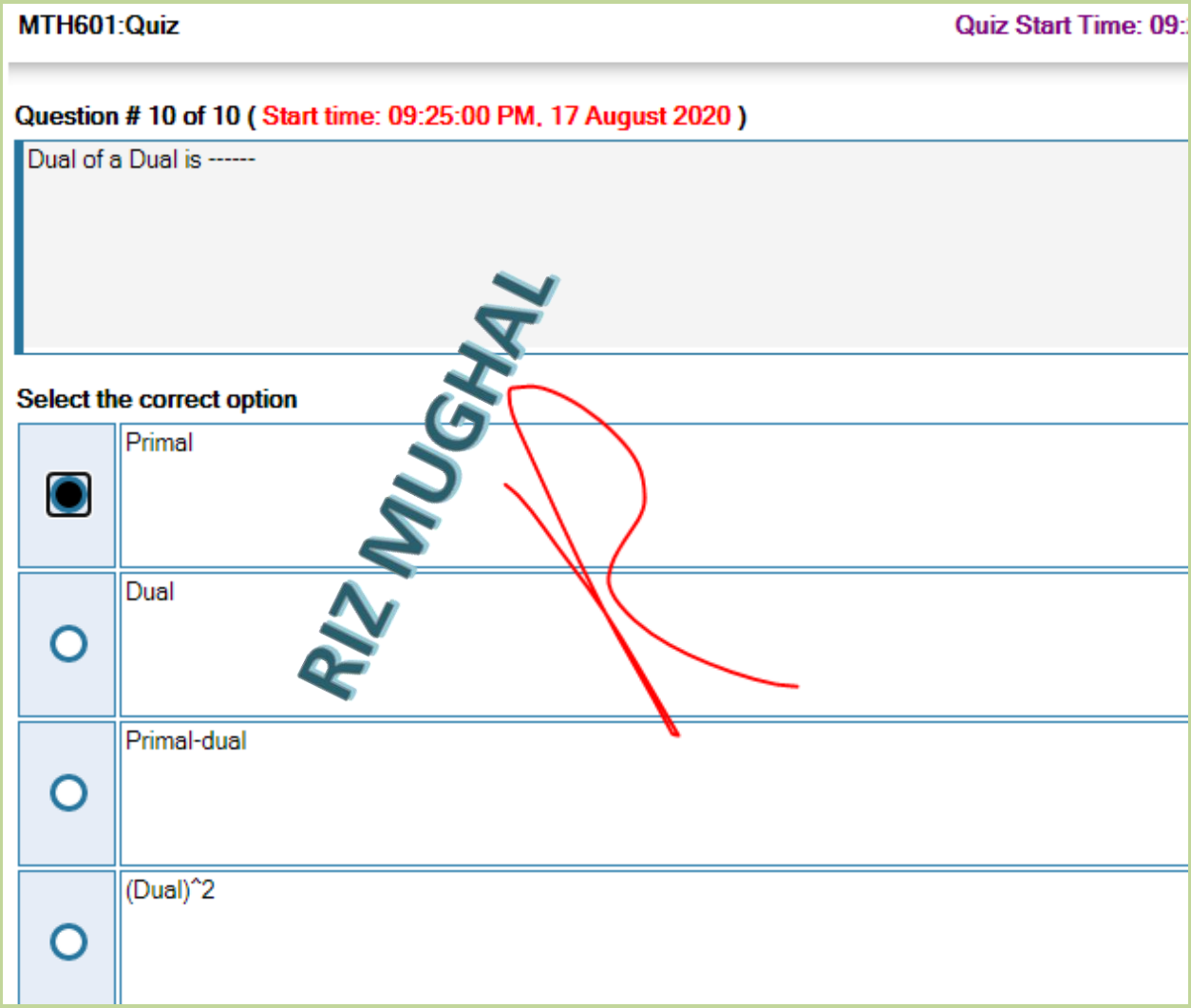
Quiz Start Time: 09:21 PM, 17 Augu

Question # 9 of 10 (Start time: 09:24:41 PM, 17 August 2020) **Total M**

By Simplex method, to minimize 'Z = 2x+9y'of an LP problem, if 'z=A>0' for the initial iteration then for its next improved solution(0<A<100), which of the following would be the next entering variable?

Select the correct option

- ○ x<0
- ○ y<0
- ◉ x>0
- ○ y>0


MTH601:Quiz
Quiz Start Time: 09:
Question # 10 of 10 (Start time: 09:25:00 PM, 17 August 2020)
Dual of a Dual is ------
Select the correct option
Primal
Dual
Primal-dual
(Dual)^2
RIZ MUGHAL

3rd account

MTH601:Quiz Quiz Start Time: 09:2

Question # 1 of 10 (Start time: 09:29:31 PM, 17 August 2020)

While solving an LP by two phase method, an objective function of 1st phase is always of---------.

Select the correct option

- maximization
- minimization
- dependent on original objective function
- none of these

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Quiz Start Time: 09:29 PM, 17 August 20

Question # 2 of 10 (Start time: 09:29:52 PM, 17 August 2020) **Total Mark**

In two phase method if the minimum value of objective function in the first phase is greater than zero, then the solution of original problem _____.

Select the correct option

- ○ is uncertain
- ○ exists
- ◉ does not exists
- ○ non of these

MTH601:Quiz Quiz Start Time: 09:29 PM, 17 August 2020

Question # 3 of 10 (Start time: 09:30:14 PM, 17 August 2020) **Total Marks:** 1

In the Simplex method to solve an LP problem of minimization, if at the end of iteration, there is a positive coefficient in the objective row then the given problem ----------.

Select the correct option

- ○ can not be optimized
- ○ has no solution
- ○ has been maximized
- ◉ needs further improvement

MTH601:Quiz Quiz Start Time: 09:29 PM, 17 August 2020

Question # 4 of 10 (Start time: 09:30:36 PM, 17 August 2020) **Total Marks:** 1

For an unbalanced Transportation problem, if the total demand is MORE than total supply then which of the following is true in order to balance the problem?

Select the correct option

- ○ One constraint will have evacuate
- ○ One constraint will have to add
- ○ A dummy sink would have to include with demand equal to the surplus
- ◉ A dummy source would have to include with supply equal to shortage

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Question # 5 of 10 (Start time: 09:30:57 PM, 17 August 2020)

Shortcoming of Big M method is that the value of M could be _____.

Select the correct option

- very small
- very large
- negative
- positive

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Quiz Start Time: 09:29 PM, 17 August 202(

Question # 6 of 10 (Start time: 09:31:15 PM, 17 August 2020) **Total Marks:**

In Simplex method to solve an LP problem, Gauss Jordan Elimination method demands that all the key column entries should be zero except-----.

Select the correct option

- ○ 1st row entry
- ◉ key row(pivot)entry
- ○ last row entry
- ○ row with maximum ratio on RHS column

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Quiz Start Time: 09:29 PM, 17 August 2020

Question # 7 of 10 (Start time: 09:31:35 PM, 17 August 2020) **Total Marks:** 1

For an unbalanced Transportation problem, if the total demand is LESS than total supply then which of the following is true in order to balance the problem?

Select the correct option

- ◉ A dummy sink would have to include with demand equal to the surplus
- ○ A dummy source would have to include with supply equal to sh[illegible]
- ○ One constraint will have evacuate
- ○ One constraint will have to add

MTH601:Quiz

Quiz Start Time: 09:29 PM, 17 August 2020

Question # 8 of 10 (Start time: 09:31:56 PM, 17 August 2020) **Total Marks:**

In the Simplex method to solve an LP problem of maximization, if at the end of iteration, every entry of objective function row is positive then the given problem----------.

Select the correct option

- needs further improvement
- has been maximized
- can not be optimized
- has no solution

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Question # 9 of 10 (Start time: 09:32:16 PM, 17 August 2020)

In the initial iteration of Big M-method, the artificial variables appear in ---------.

Select the correct option

- (●) Basis
- ( ) Non-basic variables' set

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Quiz Start Time: 09:29 PM, 17 August 2(

Question # 10 of 10 (Start time: 09:32:46 PM, 17 August 2020)

Total Mark

In two phase method, for the phase-I, if the objective function in terms of artificial variables is not minimized then the given problem has----------.

Select the correct option

- ○ Feasible solution
- ○ Optimal solution
- ◉ Infeasible solution
- ○ Degeneracy