

STA301 QUIZ(3)

Lecture 35 to 40

RIZ MUGHAL
SQA ENGINEER:

I'm providing 100% correct quiz solution.

You can visit my YouTube channel for more quiz solution, also final year project including project assignments, and viva.

YOUTUBE:

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

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STA301:QUIZ-3 Quiz Start Time: 12:

Question # 1 of 10 (Start time: 12:11:41 AM, 19 February 2021)

When sample size is to be considered large, population standard deviation can be replaced by

Select the correct option

- ○ Population variance
- ○ Sample Variance
- ○ Sample Mean
- ◉ Sample Standard Deviation

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Question # 2 of 10 (Start time: 12:12:00 AM, 19 February 2021)

For a particular hypothesis test, Alpha=0.09 and Beta=0.03, what is the value of Type I error?

Select the correct option

- (●) 0.09
- ( ) 0.91
- ( ) 0.03
- ( ) 0.97

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Question # 3 of 10 (Start time: 12:12:14 AM, 19 February 2021)

Pairing is done only in case of .....observations.

Select the correct option

- (●) Dependent
- ( ) Independent
- ( ) Small
- ( ) Large

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STA301:QUIZ-3 Quiz Start Ti

Question # 4 of 10 (Start time: 12:12:32 AM, 19 February 2021)

How can we interpret the 90% confidence interval for the mean of the normal population.

Select the correct option

- ○ There are 10% chances of falling true value of the parameter
- ◉ There are 90% chances of falling true value of the parameter
- ○ There are 100% chances of falling true value of the parameter
- ○ All are correct

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Question # 5 of 10 (Start time: 12:12:46 AM, 19 February 2021)

Alpha is the probability of:

Select the correct option

- ○ Committing Type I error
- ○ Reject H0/H0 is true
- ○ Type I error
- ◉ All of these

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STA301:QUIZ-3 Quiz Start Time: 12:11 AM, 19 February 20

Question # 6 of 10 (Start time: 12:13:02 AM, 19 February 2021) **Total Marks**

Suppose H0: p =0 H1:p < 0 and Critical value is z = - 2.33. If calculate the value of Z = - 2.60,then what will be your conclusion?

Select the correct option

Reload Math Equation

- ○ Accept Ho
- ◉ Reject Ho
- ○ Impossible to decide
- ○ None of the above

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STA301:QUIZ-3 Quiz Start Time: 12:11 AM, 19 February 2021

Question # 7 of 10 (Start time: 12:13:19 AM, 19 February 2021) **Total Marks:** 1

Suppose that the workers of factory B believe that the average income of the workers of factory A exceeds their average income; the null hypothesis will be:

Select the correct option

- ○ MeanA > MeanB
- ○ MeanA ≥ MeanB
- ○ MeanA < MeanB
- ◉ MeanA ≤ MeanB

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Question # 8 of 10 (Start time: 12:13:36 AM, 19 February 2021)

If a significance level of 5% is used rather than 1%, the null hypothesis is:

Select the correct option

- ○ Less likely to be rejected
- ○ Just as likely to be rejected
- ● More likely to be rejected
- ○ None of these

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Quiz Start Time: 12:11 AM, 19 February 2021

Question # 9 of 10 (Start time: 12:13:51 AM, 19 February 2021) **Total Marks:** 1

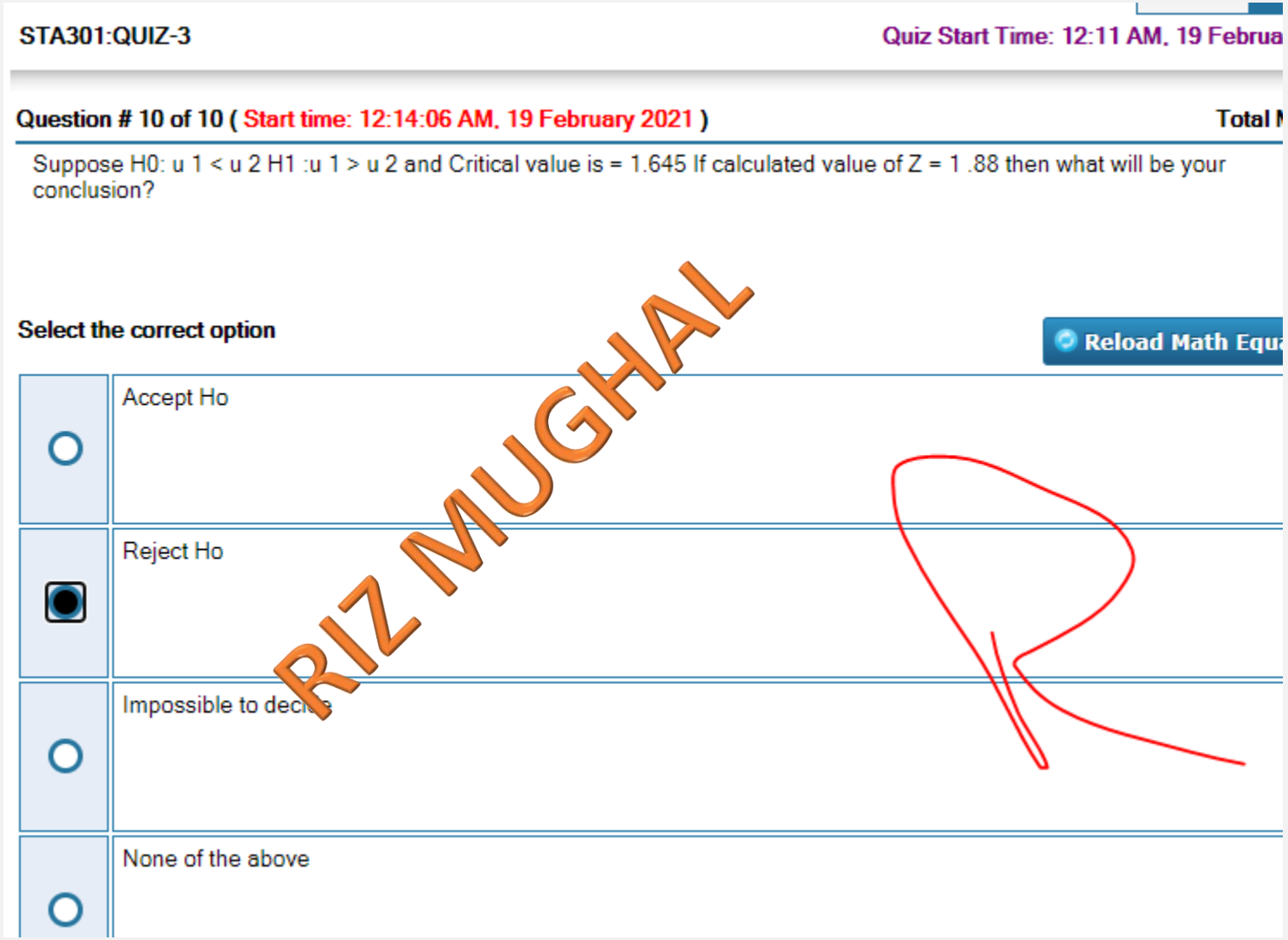
If the NULL hypothesis says that the average height of Pakistani soldiers exceeds the average height of American soldiers by not more than 3 inches. What will be its ALTERNATIVE hypothesis?

Select the correct option

Reload Math Equations

- [x] P > 3
- [ ] P < 3
- [ ] P = 3
- [ ] none of these

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STA301:QUIZ-3
Quiz Start Time: 12:11 AM, 19 Februa
Question # 10 of 10 (Start time: 12:14:06 AM, 19 February 2021)
Total
Suppose H0: u 1 < u 2 H1 :u 1 > u 2 and Critical value is = 1.645 If calculated value of Z = 1 .88 then what will be your conclusion?
Select the correct option
Reload Math Equ
Accept Ho
Reject Ho
Impossible to dec
None of the above
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2nd account

STA301:QUIZ-3

Question # 1 of 10 (Start time: 12:15:35 AM, 19 February 2021)

The term 1- β is called

Select the correct option

- ○ Level of the test
- ◉ Power of the test
- ○ Size of the test
- ○ Critical region

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Question # 2 of 10 (Start time: 12:15:53 AM, 19 February 2021)

The t-distribution can never become narrower than:

Select the correct option

- ○ F-distribution
- ◉ standard normal distribution
- ○ Chi-square distribution
- ○ exponential distribution

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STA301:QUIZ-3 Quiz Start Time: 12:15 AM, 19 Febru

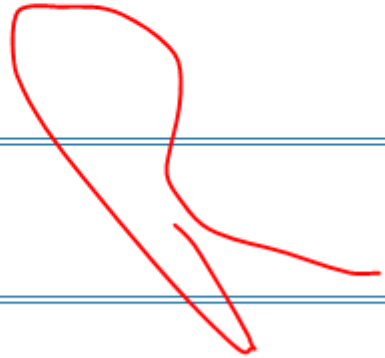
Question # 3 of 10 (Start time: 12:16:11 AM, 19 February 2021) Total

When examining group difference where no direction of the difference is specified, which of the following is used?

Select the correct option

- ○ One-tailed test
- ◉ Two-tailed test
- ○ Directional hypothesis
- ○ Difference of modes test

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Question # 4 of 10 (Start time: 12:16:26 AM, 19 February 2021)

If we are testing H0 : mean = 50 against
H1 : mean < 50 then the rejection region will be

Select the correct option

- ○ in the center
- ◉ on left side of mean
- ○ on right side of mean
- ○ on both sides

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Question # 5 of 10 (Start time: 12:16:41 AM, 19 February 2021)

The level of significance is also called:

Select the correct option

- Power of test
- Type II error
- Type I error
- Acceptence region

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STA301:QUIZ-3 Quiz Start Time: 12:15 AM, 19 February 2021

Question # 6 of 10 (Start time: 12:16:54 AM, 19 February 2021) **Total Marks:** 1

A random sample of n=25 values gives sample mean 83. Can this sample be regarded as drawn from a normal population with μ= 80 and s= 7? In this question the alternative hypothesis will be:

Select the correct option

- ○ H1: μ = 80
- ◉ H1: μ ≠ 80
- ○ H1: μ > 80
- ○ H1: μ <80

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Question # 7 of 10 (Start time: 12:17:10 AM, 19 February 2021)

The t-test for independent samples assumes which of the following?

Select the correct option

- [x] Scores are independent
- [ ] Scores are dependent
- [ ] Groups have equal means
- [ ] Groups have equal medians

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Question # 8 of 10 (Start time: 12:17:23 AM, 19 February 2021)

The critical region is computed from the value of:

Select the correct option

- [x] Alpha
- [ ] Beta
- [ ] 1-alpha
- [ ] 1-Beta

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Question # 9 of 10 (Start time: 12:17:40 AM, 19 February 2021) Tota

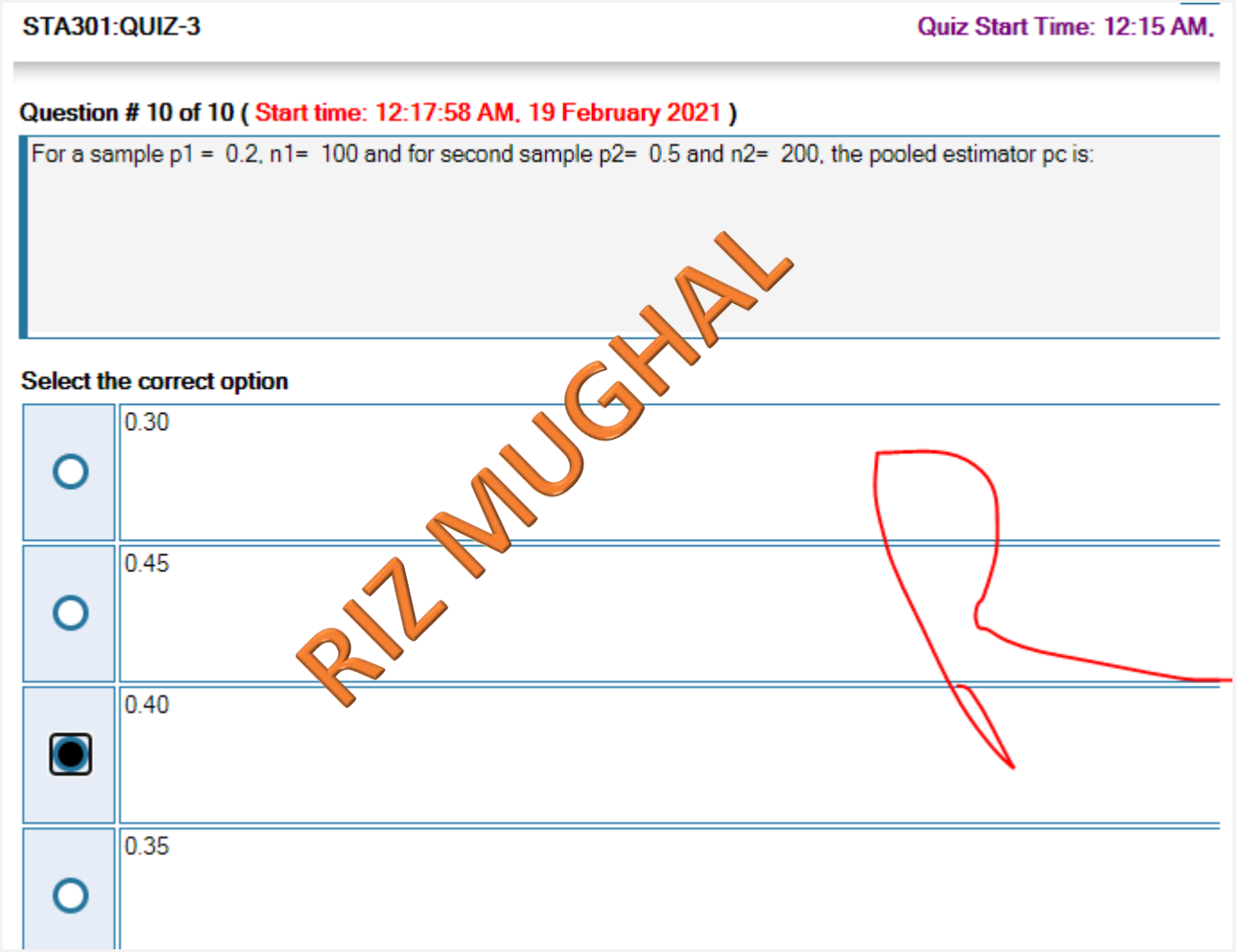
Suppose H0: u 1 < u 2 H1 :u 1 > u 2 and Critical value is = 1.645 If calculated value of Z = 1 .88 then what will be your conclusion?

Select the correct option

Reload Math Eq

- ○ Accept Ho
- ◉ Reject Ho
- ○ Impossible to decide
- ○ None of the above

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STA301:QUIZ-3
Quiz Start Time: 12:15 AM.
Question # 10 of 10 (Start time: 12:17:58 AM, 19 February 2021)
For a sample p1 = 0.2, n1= 100 and for second sample p2= 0.5 and n2= 200, the pooled estimator pc is:
Select the correct option
0.30
0.45
0.40
0.35
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3rd account

STA301:QUIZ-3 Quiz

Question # 1 of 10 (Start time: 10:49:16 AM, 19 February 2021)

The location of the critical region depends upon:

Select the correct option

- ○ Null hypothesis
- ◉ Alternative hypothesis
- ○ Value of alpha
- ○ Value of test-statistic

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STA301:QUIZ-3 Quiz Start Time: 10

Question # 2 of 10 (Start time: 10:49:34 AM, 19 February 2021)

To test the hypothesis about the difference of means for small samples, which test statistic will be used?

Select the correct option

- ○ Z-test
- ◉ t- test
- ○ F-test
- ○ All of these

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STA301:QUIZ-3

Question # 3 of 10 (Start time: 10:49:48 AM, 19 February 2021)

The level of significance is also called:

Select the correct option

- ○ Power of test
- ○ Type II error
- ◉ Type I error
- ○ Acceptence region

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Question # 4 of 10 (Start time: 10:50:01 AM, 19 February 2021)

Pairing is done only in case of .....observations.

Select the correct option

- (●) Dependent
- ( ) Independent
- ( ) Small
- ( ) Large

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STA301:QUIZ-3

Question # 5 of 10 (Start time: 10:50:14 AM, 19 February 2021)

Critical region is computed with the value of .....

Select the correct option

- (●) α
- ( ) ß
- ( ) 1-α
- ( ) 1- ß

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STA301:QUIZ-3 Quiz Start Time: 10:49 AM, 19 February 2

Question # 6 of 10 (Start time: 10:50:28 AM, 19 February 2021) Total Mar

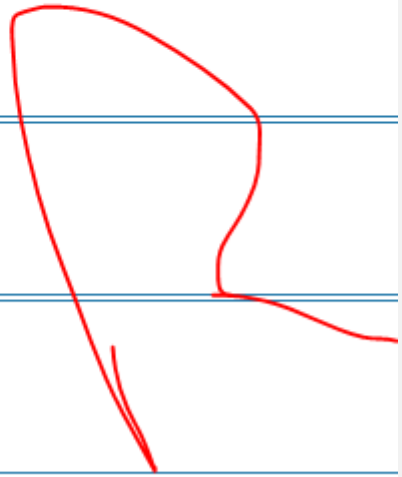
Suppose H0: u 1= u2 and H1:u 1 < u 2 and Critical value is z= - 1.645. If calculated value of Z= - 2.08,then what will be your conclusion?

Select the correct option

Reload Math Equatic

- Accept Ho
- Reject Ho
- Impossible to decide
- None of the above

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STA301:QUIZ-3 Q

Question # 7 of 10 (Start time: 10:50:44 AM, 19 February 2021)

The t-test for independent samples assumes which of the following?

Select the correct option

- (●) Scores are independent
- ( ) Scores are dependent
- ( ) Groups have equal means
- ( ) Groups have equal medians

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STA301:QUIZ-3 Quiz Start Time: 10:49 AM, 19 February 2021

Question # 8 of 10 (Start time: 10:51:02 AM, 19 February 2021) **Total Marks:** 1

A random sample of n=25 values gives sample mean 83. Can this sample be regarded as drawn from a normal population with μ= 80 and s= 7? In this question the alternative hypothesis will be:

Select the correct option

- ○ H1: μ = 80
- ◉ H1: μ ≠ 80
- ○ H1: μ > 80
- ○ H1: μ <80

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Question # 9 of 10 (Start time: 10:51:18 AM, 19 February 2021)

Mean of t-distribution will not exist when d.f(degree of freedom) will equal to:

Select the correct option

- (●) 1
- ( ) 2
- ( ) 3
- ( ) 4

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STA301:QUIZ-3 Quiz Start Time: 10:49 A

Question # 10 of 10 (Start time: 10:51:34 AM, 19 February 2021)

Which of the following is not a criterion for a good problem situation?

Select the correct option

- ○ It must be authentic.
- ◉ It must be clearly structured and defined.
- ○ It must be appropriate to the student's level of development.
- ○ It must be such that its solution will be benefited by group effort.

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Thank you for watching ☺

Share with your fellows

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