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 # 7 of 10 (Start time: 12:13:19 AM, 19 February 2021) Total Ma

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

Select the correct option

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

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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

- [x] 0.09
- [ ] 0.91
- [ ] 0.03
- [ ] 0.97

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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 M

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

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

Select the correct option

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

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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 # 10 of 10 (Start time: 12:14:06 AM, 19 February 2021) **Total M**

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 Equa

○	Accept Ho
◉	Reject Ho
○	Impossible to dec
○	None of the above

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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?

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Select the correct option

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

Question # 4 of 10 (Start time: 12 2021)

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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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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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Question # 4 of 10 (Start time: 12/30/2021 12:05:[illegible] 2021)

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

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

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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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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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 # 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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Question # 4 of 10 (Start time: 12 [illegible] January 2021)

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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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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 # 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

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

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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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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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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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