PSY516 - Statistics in Psychology (Quiz 3)

Question # 1 of 10 (Start time: 12:44:00 AM, 09 January

In SPSS the dependent variable is also called as:

Select the correct option

○	Interdependent variable
○	Grouping variable
○	Test variable ✓
○	Categorical variable

PSY516 - Statistics in Psychology (Quiz 3) Quiz

Question # 2 of 10 (Start time: 12:44:44 AM, 09 January 2024)

Which of the following statistics is used to test hypotheses about an unknown population mean?

Select the correct option

- f-statistics
- t- statistics
- R statistics
- z-statistics

PSY516 - Statistics in Psychology (Quiz 3)

Question # 3 of 10 (Start time: 12:45:41 AM, 09 January 2024)

Which of the following values of population is unchanged by the treatment?

Select the correct option

○	β
○	σ
○	μ
○	α

PSY516 - Statistics in Psychology (Quiz 3)

Question # 4 of 10 (Start time: 12:46:47 AM, 09 January 2024)

The power of a test is defined as the probability that the test will:

Select the correct option

○	Accept alternative hypothesis
○	Reject alternative hypothesis
○	Reject the null hypothesis ✓
○	Accept the null hypothesis

PSY516 - Statistics in Psychology (Quiz 3)

Question # 5 of 10 (Start time: 12:48:03 AM, 09 January 2024)

In hypothesis testing it is assumed that the participants used in the study were selected:

Select the correct option

○	Evenly
○	Commonly
○	Specifically
○	Randomly

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 12:43 AM, 09 Janua

Question # 6 of 10 (Start time: 12:49:38 AM, 09 January 2024) Total

Which of the following is assumed to remain same in hypothesis testing for the unknown population after treatment and before treatment?

Select the correct option

Reload Math Equ

- ○ Median
- ○ Mean
- ○ Mode
- ○ Standard deviation

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Tim

Question # 7 of 10 (Start time: 12:51:44 AM, 09 January 2024)

Hypothesis testing procedure uses _____ to reach a conclusion about the population parameter.

Select the correct option

○	Population statistics
○	Test-Statistic ✓
○	Sample statistics
○	Level of Significance

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 12:43

Question # 8 of 10 (Start time: 12:53:02 AM, 09 January 2024)

In which of the following designs research question is concerned with a mean difference between two sets of data?

Select the correct option

Rel

- Paired sample -subject design
- Repeated measure-subject design
- Within-subject design
- Between-subject design

Question # 9 of 10 (Start time: 12:54:48 AM, 09 January 2024)

All of the following factors can influence the power of a test, EXCEPT:

Select the correct option

○	Standard error ✓
○	One-tailed versus two-tailed test
○	Alpha level
○	Sample size

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 12:43 AM, 09 January 20

Question # 10 of 10 (Start time: 12:55:24 AM, 09 January 2024)

Total Mark

In research if two sets of data could come from two completely separate groups of participants. Which type of statistical tests will be appropriate for testing the tenability of null hypothesis?

Select the correct option

Reload Math Equations

- Independent t-test
- Wilcoxon T-test
- Repeated measure
- Post hoc test

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Tim

Question # 1 of 10 (Start time: 10:26:19 PM, 09 January 2024)

Hypothesis testing procedure uses _____ to reach a conclusion about the population parameter.

Select the correct option

- ○ Level of Significance
- ○ Sample statistics
- ○ Population statistics
- ○ Test-Statistic

PSY516 - Statistics in Psychology (Quiz 3)

Question # 2 of 10 (Start time: 10:27:51 PM, 09 January 2024)

Differences between two groups of participants is assessed through:

Select the correct option

○	Simple Linear Regression
○	Two way ANOVA
○	Pearson Product Moment Correlation
○	Independent sample t-test

PSY516 - Statistics in Psychology (Quiz 3)

Question # 3 of 10 (Start time: 10:28:59 PM, 09 January 2024)

Alternative name of between-subject design is:

Select the correct option

○	Two way ANOVA
○	Repeated measure sample t-test
○	One way ANOVA
○	Independent sample t-test ✓

PSY516 - Statistics in Psychology (Quiz 3)

Question # 4 of 10 (Start time: 10:30:32 PM, 09 January 2024)

The power of a test is defined as the probability that the test will:

Select the correct option

○	Accept alternative hypothesis
○	Accept the null hypothesis
○	Reject alternative hypothesis
○	Reject the null hypothesis

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:26 PM, 09 January

Question # 5 of 10 (Start time: 10:31:55 PM, 09 January 2024)

Total M

T distribution is used to compute _____% confidence interval for the population mean based on smaller samples.

Select the correct option

Reload Math Equat

- 90
- 95
- 99
- 97

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:26 PM, 09 Januar

Question # 6 of 10 (Start time: 10:32:59 PM, 09 January 2024)

Total M

Where would you look on an independent t-test output to identify whether there was a significant difference between the groups?

Select the correct option

Reload Math Equa

- The descriptive statistics box
- T-test for equality of mean section
- The F test
- Levene's test column

PSY516 - Statistics in Psychology (Quiz 3) Qui

Question # 7 of 10 (Start time: 10:34:11 PM, 09 January 2024)

Which of the following statistics is used to test hypotheses about an unknown population mean?

Select the correct option

○	f-statistics
○	z-statistics
○	t- statistics
○	R statistics

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 10:26

Question # 8 of 10 (Start time: 10:35:27 PM, 09 January 2024)

Which of the following scores formula for hypothesis testing requires more information than is usually available?

Select the correct option

Re

- z- scores
- t-scores
- X-scores
- F-scores

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:26 PM, 09 January 2024

Question # 9 of 10 (Start time: 10:36:29 PM, 09 January 2024)

Total Marks: 1

A group of 10 students was randomly drawn from class 12 and was given yoga training for three weeks. Their wellness life style was compared with another similarly selected group which did not undergo such training. Which type of statistical test will be appropriate for testing the tenability of null hypothesis?

Select the correct option

Reload Math Equations

- Sign test
- Post hoc test
- Wilcoxon T-test
- Independent t-test

PSY516 - Statistics in Psychology (Quiz 3)

Question # 10 of 10 (Start time: 10:37:35 PM, 09 January 2024)

Which of the following statistics is important when interpreting an independent samples t-test?

Select the correct option

○	Descriptive statistics
○	T scores
○	Significance level
○	All of the following

PSY516 - Statistics in Psychology (Quiz 3)

Question # 1 of 10 (Start time: 11:21:48 PM, 09 January 2024)

Level of significance is also known as:

Select the correct option

○	Size of logical region
○	Size of acceptance region
○	Size of the rejection region ✓
○	Size of significant region

PSY516 - Statistics in Psychology (Quiz 3)

Question # 2 of 10 (Start time: 11:23:02 PM, 09 January 2024)

A type I error is committed by rejecting:

Select the correct option

○	Null hypothesis when it is true
○	Alternative hypothesis when it is true
○	Alternative hypothesis when it is false
○	Null hypothesis when it is false

PSY516 - Statistics in Psychology (Quiz 3)

Question # 3 of 10 (Start time: 11:24:19 PM, 09 January 2024)

A type II error is committed by accepting a null hypothesis when:

Select the correct option

○	Null hypothesis when it is true
○	Alternative hypothesis when it is true
○	Alternative hypothesis when it is false
○	Null hypothesis when it is false ✓

PSY516 - Statistics in Psychology (Quiz 3)

Question # 4 of 10 (Start time: 11:25:09 PM, 09 January 2024)

Type 1 error occurs when:

Select the correct option

○	We accept H0 if it is false
○	We reject H0 if it is true ✓
○	We reject H0 if it is false
○	We accept H0 if it is true

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 11:21 PM, 09 Januar

Question # 6 of 10 (Start time: 11:27:03 PM, 09 January 2024) Total

Where would you look on an independent t-test output to identify whether there was a significant difference between the groups?

Select the correct option

Reload Math Equa

- The F test
- The descriptive statistics box
- T-test for equality of mean section
- Levene's test column

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 11:21 PM, 09 January

Question # 7 of 10 (Start time: 11:28:21 PM, 09 January 2024)

Total M

Which of the following power analysis programmes is used to determine the sample size and analyzing power in research studies?

Select the correct option

Reload Math Equat

- Post hoc
- Cohen's d
- G Power
- Eta squared

Question # 8 of 10 (Start time: 11:29:31 PM, 09 January 2024)

Which of the following scores formula for hypothesis testing requires more information than is usually available?

Select the correct option

- F-scores
- z- scores
- X-scores
- t-scores

PSY516 - Statistics in Psychology (Quiz 3)

Question # 9 of 10 (Start time: 11:30:16 PM, 09 January 2024)

In general, which of the following factors produces greater power for a hypothesis test?

Select the correct option

○	Independent observations
○	A larger sample ✓
○	Standard error
○	Alpha level

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 11:21 PM, 09 January 2024

Question # 10 of 10 (Start time: 11:31:24 PM, 09 January 2024)

Total Marks: 1

Statistical conclusion is a decision to accept or reject a null hypothesis. In which of the following steps of hypothesis testing, researchers draw a statistical conclusion?

Select the correct option

Reload Math Equations

- 4^{th}
- 2^{nd}
- 3^{rd}
- 5^{th}

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:32 PM, 10 January 2

Question # 1 of 10 (Start time: 10:32:15 PM, 10 January 2024)

Total Ma

Which of the following power analysis programmes is used to determine the sample size and analyzing power in research studies?

Select the correct option

Reload Math Equatio

- Eta squared
- G Power
- Cohen's d
- Post hoc

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time:

Question # 2 of 10 (Start time: 10:33:40 PM, 10 January 2024)

Hypothesis testing procedure uses _____ to reach a conclusion about the population parameter.

Select the correct option

○	Test-Statistic
○	Level of Significance
○	Sample statistics
○	Population statistics

PSY516 - Statistics in Psychology (Quiz 3)

Question # 3 of 10 (Start time: 10:34:44 PM, 10 January 2024)

Differences between two groups of participants is assessed through:

Select the correct option

○	Pearson Product Moment Correlation
○	Simple Linear Regression
○	Two way ANOVA
○	Independent sample t-test

sec(s)

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 10:32 PM, 10 January 2024

Question # 4 of 10 (Start time: 10:36:28 PM, 10 January 2024) Total Marks:

Which of the following errors determine how much difference is reasonable to expect between a sample mean (M) and the population mean (μ)?

Select the correct option

Reload Math Equations

- Type II error
- Type I error
- Standard error of estimate
- Standard error

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 10:32 PM, 10 Jan

Question # 5 of 10 (Start time: 10:37:57 PM, 10 January 2024) To

In which of the following tests, when the variability for the population is not known, we use the sample variability in its place?

Select the correct option

Reload Math E

- z- test
- F-test
- t-test
- Post hoc test

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:32 PM, 10 Janu

Question # 6 of 10 (Start time: 10:39:33 PM, 10 January 2024)

Tota

Which of the following is assumed to remain same in hypothesis testing for the unknown population after treatment and before treatment?

Select the correct option

Reload Math Equ

- Standard deviation
- Median
- Mode
- Mean

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:32 PM, 10 January 2024

Question # 7 of 10 (Start time: 10:40:44 PM, 10 January 2024)

Total Marks: 1

A group of 10 students was randomly drawn from class 12 and was given yoga training for three weeks. Their wellness life style was compared with another similarly selected group which did not undergo such training. Which type of statistical test will be appropriate for testing the tenability of null hypothesis?

Select the correct option

Reload Math Equations

- Wilcoxon T-test
- Post hoc test
- Independent t-test
- Sign test

PSY516 - Statistics in Psychology (Quiz 3)

Question # 8 of 10 (Start time: 10:42:06 PM, 10 January 2024)

The probability of Type 1 error is referred as:

Select the correct option

○	1-α
○	β
○	α
○	1-B

PSY516 - Statistics in Psychology (Quiz 3)

Question # 9 of 10 (Start time: 10:42:56 PM, 10 January 2024)

A type I error is committed by rejecting:

Select the correct option

○	Null hypothesis when it is true ✓
○	Alternative hypothesis when it is true
○	Null hypothesis when it is false
○	Alternative hypothesis when it is false

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 10:32 PM, 10 Ja

Question # 10 of 10 (Start time: 10:43:40 PM, 10 January 2024) T

In hypothesis testing which of the following errors occur when a researcher fails to reject a null hypothesis that is really false?

Select the correct option

Reload Math

- Standard error of estimate
- Type I error
- Type II error
- Standard error

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:49 PM, 10 January 20

Question # 2 of 10 (Start time: 10:50:36 PM, 10 January 2024)

Total Mark

In research if two sets of data could come from two completely separate groups of participants. Which type of statistical tests will be appropriate for testing the tenability of null hypothesis?

Select the correct option

Reload Math Equation

- Wilcoxon T-test
- Post hoc test
- Repeated measure
- Independent t-test

Question # 3 of 10 (Start time: 10:51:33 PM, 10 January 2024)

In hypothesis testing it is assumed that the values in the sample must consist of _____.

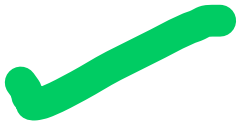
Select the correct option

- ○ Standard error
- ○ Independent observations 
- ○ Standard deviation
- ○ Mean

Question # 4 of 10 (Start time: 10:52:20 PM, 10 January 2024)

Which of the following formulas is considered for a 95% confidence interval for a population mean?

Select the correct option

- ○ Sample mean ± 2 standard errors 
- ○ Population mean ± 1 standard errors
- ○ Sample mean ± 1 standard errors
- ○ Population mean ± 2 standard errors

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:49 PM, 10 January 2

Question # 5 of 10 (Start time: 10:53:44 PM, 10 January 2024)

Total Mar

The independent-samples t-test compares the means between two unrelated groups on _____dependent variable.

Select the correct option

Reload Math Equation

- Categorical
- Unambiguous
- Continuous 
- Absolute

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 10:4

Question # 6 of 10 (Start time: 10:54:43 PM, 10 January 2024)

If the z-score is large enough to be in the critical region, then we reject the null hypothesis and concludes that the:

Select the correct option

Re

- Treatment has no significant effect
- Treatment has significant effect
- Treatment has non-significant effect
- Treatment effect is unknown

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:49 PM, 10 January 2024

Question # 7 of 10 (Start time: 10:56:22 PM, 10 January 2024)

Total Marks: 1

Statistical conclusion is a decision to accept or reject a null hypothesis. In which of the following steps of hypothesis testing, researchers draw a statistical conclusion?

Select the correct option

Reload Math Equations

- 5^{th}
- 3^{rd}
- 2^{nd}
- 4^{th}

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:49 PM, 10 January

Question # 8 of 10 (Start time: 10:57:27 PM, 10 January 2024)

Total M

Where would you look on an independent t-test output to identify whether there was a significant difference between the groups?

Select the correct option

Reload Math Equat

- The F test
- Levene's test column
- T-test for equality of mean section
- The descriptive statistics box

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 10:49 PM, 10 Janu

Question # 9 of 10 (Start time: 10:58:35 PM, 10 January 2024) Total

T distribution is used to compute _____% confidence interval for the population mean based on smaller samples.

Select the correct option

Reload Math Equ

- 90
- 99
- 97
- 95

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 10:49 PM, 10 January 202

Question # 10 of 10 (Start time: 10:59:26 PM, 10 January 2024)

Total Mark

Which of the following errors determine how much difference is reasonable to expect between a sample mean (M) and the population mean (μ)?

Select the correct option

Reload Math Equations

- Type I error
- Standard error
- Type II error
- Standard error of estimate

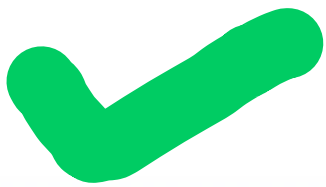
PSY516 - Statistics in Psychology (Quiz 3)

Question # 4 of 10 (Start time: 12:44:24 PM, 10 January 2024)

The power of a test is defined as the probability that the test will:

Select the correct option

- Accept alternative hypothesis
- Accept the null hypothesis
- Reject alternative hypothesis
- Reject the null hypothesis



Question # 1 of 10 (Start time: 02:05:26 PM, 10 January 2024)

A researcher needs all of the following from a sample EXCEPT:

Select the correct option

- ○ Mean
- ○ Standard error
- ○ Number of observations
- ○ Standard deviation

Question # 3 of 10 (Start time: 02:07:57 PM, 10 January 2024)

Which of the following factors can reduce the chances of finding a significant treatment effect?

Select the correct option

- Mean
- Variability of the scores
- Standard error
- Standard error of estimate

Question # 4 of 10 (Start time: 02:08:55 PM, 10 January 2024)

Alternative name of independent measures research design is:

Select the correct option

○	Paired sample -subject design
○	Repeated measure-subject design
○	Within-subject design
○	Between-subject design ✓

Question # 7 of 10 (Start time: 02:11:23 PM, 10 January 2024)

In hypothesis testing a sample value in the critical region is very unlikely to occur when:

Select the correct option

○	Null hypothesis is false
○	Null hypothesis is true ✓
○	Alternative hypothesis is false
○	Alternative hypothesis is true

Question # 10 of 10 (Start time: 02:13:50 PM, 10 January 2024)

In which of the following cases an independent-samples t-test would not be appropriate?

Select the correct option

○	Comparing men and women's IQ on one occasion
○	Comparing the attitudes of Eastern and Western individuals
○	Comparing students attitude change between the start and end of their degree ✓
○	Comparing younger and older adults level of teamwork

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 04:11 PM, 10 Ja

Question # 2 of 10 (Start time: 04:12:16 PM, 10 January 2024)

T

In independent measures research design how many sets of data could come from completely separate groups of participants

Select the correct option

Reload Math

- 4
- 2
- 5
- 3

Question # 2 of 10 (Start time: 04:12:08 PM, 10 January 2024)

An independent t-test can be used to asses:

Select the correct option

○	How many factors there are in questionnaire data
○	Differences between two groups of participants
○	Differences between scores obtained on two separate occasions from the same participants
○	Relationships between two ratio data sets

PSY516 - Statistics in Psychology (Quiz 3) Quiz Start Time: 04:11 PM, 1

Question # 4 of 10 (Start time: 04:14:26 PM, 10 January 2024)

In hypothesis testing which of the following scores generally decide about the rejection and acceptance of a hypothesis?

Select the correct option

Reload M

- z-scores
- f-score
- t-score
- x-scores

Question # 5 of 10 (Start time: 04:15:05 PM, 10 January 2024)

Which of the following options is considered if the z-score is large enough to be in the critical region?

Select the correct option

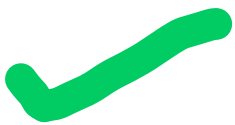
- Accept the null hypothesis
- Reject the null hypothesis 
- Accept alternative hypothesis
- Reject alternative hypothesis

PSY516 - Statistics in Psychology (Quiz 3)

Question # 8 of 10 (Start time: 04:19:47 PM, 10 January 2024)

A researcher needs all of the following from a sample EXCEPT:

Select the correct option

○	Mean
○	Number of observations 
○	Standard error
○	Standard deviation

Question # 10 of 10 (Start time: 04:21:46 PM, 10 January 2024)

In hypothesis testing the alpha level determines the probability of which of the following errors?

Select the correct option

- ○ Standard error
- ○ Standard error of estimate
- ○ Type II error
- ○ Type I error ✓

PSY516 - Statistics in Psychology (Quiz 3)

Question # 4 of 10 (Start time: 04:29:18 PM, 10 January 2024)

Which of the following tests requires assumptions about parameters?

Select the correct option

- Kruskal Willis test
- Parametric test 
- Non parametric test
- Mann-Whitney-Wilcoxon

PSY516 - Statistics in Psychology (Quiz 3)

Quiz Start Time: 11:23 PM, 10 J

Question # 10 of 10 (Start time: 11:27:11 PM, 10 January 2024)

Which of the following sample size is not considered as large enough when considering formula using population standard deviation/square root of sample size?

Select the correct option

Reload Math

- More than 60
- Less than 50
- Less than 25 ✓
- More than 40

Question # 10 of 10 (Start time: 10:16:48 PM, 08 January 2024)

Which of the following is defined as the rule or formula to test a null hypothesis?

Select the correct option

- ○ Null statistic
- ○ Population statistic
- ○ Variance statistic
- ◉ Test statistic

Question # 10 of 10 (Start time: 10:27:38 PM, 08 January 2024)

A t-test is a significance test that assesses:

Select the correct option

○	The medians of two dependent groups
○	The modes of two independent variables
◉	The means of two independent groups
○	The standard deviation of three independent variables