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## Unit 8 - Week 7

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### Course outline

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Lesson-31 Hypothesis Testing Process-I

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Lesson-33 Hypothesis Testing Examples

Lesson-34 Hypothesis Testing of Proportions-I

## Assignment 7

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-20, 23:59 IST.**

1) If the sample mean is far from the assumed population mean, the null hypothesis is .....? **1 point**

- a) Accepted
- b) Rejected
- c) Retested
- d) Does not depend on assumed mean

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Rejected

2) The error associated with rejecting a true null hypothesis is termed as .....? **1 point**

- a) Type 1 Error
- b) Type 2 Error
- c) Type 3 Error
- d) Random Error

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) Type 1 Error

3) The area under curve that is in the rejection region beyond the critical values represents .....? **1 point**

- a) Type 1 Error
- b) Type 2 Error

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Assignment 7	4) The error caused when a researcher fails to reject a false null hypothesis is termed as .....? <b>1 point</b>
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ce De .....?

a) Type 1 Error

b) Type 2 error

c) Type 3 Error

d) Random Error

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

b) Type 2 error

5) The probability of a statistical test rejecting the null hypothesis, when the null hypothesis is false is called.....? **1 point**

a) Type 1 Error

b) Type 2 Error

c) Type 3 Error

d) Power of statistical test

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

d) Power of statistical test

6) The value of which of the following is set in advance by a researcher.....? **1 point**

a) Type 1 Error

b) Type 2 Error

c) Type 3 Error

d) Random Error

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

a) Type 1 Error

7) The probability of not rejecting a null hypothesis when it is true is called .....? **1 point**

a) Type 1 Error

b) Type 2 Error

c) Confidence Coefficient

d) Random Error

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

c) Confidence Coefficient

8) If you are using a higher significance level for testing the hypothesis, the probability of rejecting a null hypothesis when it is true will .....? **1 point**

a) Decrease

b) Increase

c) Will not change

- d) Not dependent on significance level

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Increase

9) An automobile manufacturer claims that a particular model gets 28 miles to the gallon. The **1 point** Environmental protection Agency, using a sample of 49 automobiles of this model, finds the sample mean to be 26.8 miles per gallon. From previous studies, the population standard deviation is known to be 5, miles per gallon. Could we reasonably expect (within 2 standard errors) that we could select such a sample if indeed the population mean is actually 28 miles per gallon?

- a) Yes
- b) No
- c) Data insufficient
- d) Can't say

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) Yes

10) Hinton press hypothesizes that the average life of its largest web press is 14,500 hours. **1 point** They know that the standard deviation of press life is 2,100 hours. From a sample of 25 presses, the company finds a sample mean of 13,000 hours. At a 0.01 significance level, should the company conclude that the average life of the presses is less than the hypothesized 14,500 hours?

- a) Yes
- b) No
- c) Data insufficient
- d) Can't say

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) Yes

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