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Assignment 10

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-04-10, 23:59 IST.**

1) Analysis of variance is a statistical method of comparing the _____ **1 point** of several populations.

- a) standard deviations
- b) variances
- c) means
- d) proportions

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) means

2) The _____ sum of squares measures the variability of the observed values around their respective treatment means. **1 point**

- a) treatment
- b) error
- c) interaction
- d) total

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) error

3) What do ANOVA calculate? **1 point**

- a) Z-score
- b) F Ratio

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Solution-Assignment 10

Week 11

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4) Tukey- Kramer procedure would be used

1 point

- a) To test independence of errors
- b) To test for homogeneity of variance
- c) To test for pair-wise mean differences
- d) To test for normality

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) To test for pair-wise mean differences

5) For calculation F test statistic for one-way ANOVA experiment, which one is used?

1 point

- a) SSW/SSA
- b) MSA/MSW
- c) SSA/SSW
- d) MSW/MSA

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) MSA/MSW

6) What are the two type of variance which can occur in your data?

1 point

- a) Independence and confounding
- b) Between or within group
- c) Anova and Ancova
- d) Repeated and extraneous

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Between or within group

7) Question (7-10) a study compare the number of hours of relief provided by five different brands of antacid administered to 25 different people, each with stomach acid consideration strong.

1 point

The results are given below:

Brands	Brands	Brands	Brands	Brands
A	B	C	D	E
4.4	5.8	4.8	2.9	4.6
4.6	5.2	5.9	2.7	4.3
4.5	4.9	4.9	2.9	3.8
4.1	4.7	4.6	3.9	5.2
3.8	4.6	4.3	4.3	4.4

Compute the mean number of hours of relief for D brand and determine the grand mean.

- a) 4.28 and 3.5
- b) 5.04 and 3.5
- c) 4.90 and 4.40
- d) 3.34 and 4.40

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) 3.34 and 4.40

8) Estimate the population variance using the among column variance.

1 point

- a) 4.404
- b) 0.2942
- c) 2.2514
- d) 3.35

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) 2.2514

9) Estimate the population variance using the within- column variance computed from the variance within the samples.

1 point

- a) 0.2942
- b) 0.3943
- c) 0.4248
- d) 0.1785

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) 0.2942

10) Calculate the F ratio.

1 point

- a) 7.65
- b) 6.45
- c) 19.25
- d) 2.03

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) 7.65

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