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 ________ 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.

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

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b) error

3) What do ANOVA calculate?

- a) Z-score
- b) F Ratio

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b) F Ratio
4) Tukey-Kramer procedure would be used
   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?
   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?
   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. The results are given below:

<table>
<thead>
<tr>
<th>Brands</th>
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</thead>
<tbody>
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<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
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<td>5.8</td>
<td>4.8</td>
<td>2.9</td>
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<td>3.8</td>
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</tbody>
</table>

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

Acceptance Answers:
- d) 3.34 and 4.40

No, the answer is incorrect.
Score: 0

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

Acceptance Answers:
- c) 2.2514

No, the answer is incorrect.
Score: 0

10) Calculate the F ratio.

Acceptance Answers:
- a) 7.65

No, the answer is incorrect.
Score: 0