

KERALA AGRICULTURAL UNIVERSITY  
B.Sc (Hons.) Ag. Programme

II<sup>nd</sup> Semester Re- Examination- July/August -2015

Cat. No: Stat.1201

Title: Basic Statistics (1+1)

Marks: 80

Time: 3 hours

I. Answer as directed. (10 x 1 = 10)

State whether the following statements are TRUE or FALSE.

1. Primary data comes under classification of data.
2. Correlation co-efficient can take any value.
3. Deliberate sampling does not involve probability.

Fill up the blanks with suitable answer from the brackets

4. Less than ogive and greater than ogive intersect at ----- (median/mean).
5. Square root of mean square is ----- (standard deviation/ standard error).
6. Homogeneous sub group is ----- (stratum/cluster).

Match the following.

- |                 |                    |
|-----------------|--------------------|
| 7. Type I error | Equality of means  |
| 8. F-test       | Test of hypothesis |
| 9. Primary unit | Sampling           |
| 10. Cluster     | Two stage sampling |

II. Write short answers on any ten only. (10 x 3 = 30)

1. Classification of data.
2. Histogram.
3. Inclusive and exclusive class intervals.
4. Frequency polygon.
5. Multiplicative probability theorem.
6. Theoretical distributions.
7. Regression co-efficient.
8. SRSWR and SRSWOR.
9. Cluster sampling.
10. Level of significance.
11. Test statistic.
12. Rank correlation.

III. Write short essays on any six only. (6 x 5 = 30)

1. Diagrammatic representation of data.
2. Ideal measures of central tendency.
3. Skewness and kurtosis.
4. Absolute Vs relative measures.
5. Stratified random sampling.
6. Steps in test of hypothesis.
7. Test for goodness of fit.
8. Z transformation.

IV. Write essay on any one only. (1 x 10 = 10)

1. Different measures of dispersion and their characters.
2. One way classification of analysis of variance.