KERALA AGRICULTURAL UNIVERSITY

B.Sc Hons (Ag) 2012 Admission

II nd Semester Final Examination- August /September-2013

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. Statistics should not be applied to constant.
2. Diagrams are aids only.
3. Equality of two variances is tested by F-ratio.

Fill up the blanks with suitable answer from the braces.

4. 50% of the of the data lie below ----------- (median/mode).
5. Standard deviation is ------------- (absolute/relative) measure.
6. Means of two related samples should be tested by ------------ (paired/independent) t-test.

Match the following.

7. Correlation   Level of significance
8. Probability   Standard deviation
9. Coefficient of variation   Normal distribution
10. Hypothesis   Scatter diagram

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

1. Mean.
2. Frequency.
3. Skewness.
4. Kurtosis.
5. Co-efficient of concordance.
6. Addition theorem on probability.
7. Sampling distribution.
8. Stratum Vs Cluster.
9. Primary and secondary units.
10. Type I and Type II errors.
11. Z transformation.
12. Yates's correction for continuity.

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

1. Ogives.
2. Weighted arithmetic mean.
3. Ideal measure of central tendency.
4. Linear regression.
5. Systematic sampling.
6. Large sample tests.
7. Various measures of dispersion
8. Assumptions in analysis of variance.

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

1. Different tests based on chi-square distribution.
2. Two way classification analysis of variance.