



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Ag.**  
**Re-examination - July 2019**  
**2012 and previous admission**

**Stat.1201**

**Basic statistics (1+1)**

**Marks: 80**  
**Time: 3 hours**

**I State True or False**

**(10x1=10)**

- 1 Standard deviation is a measure of dispersion.
- 2 Probability ranges from 0 to 1.
- 3 Rejecting a null hypothesis when it is true is called Type I error.
- 4 Bar diagram is two dimensional.
- 5 Normal distribution curve is bell shaped.

**Fill in the blanks**

- 6 .....divides the data set in to two equal parts.
- 7 The difference between largest and smallest value in a data set is.....
- 8 Equality of two Variances are tested by ..... test
- 9 .....is the measure of lack of symmetry.
- 10 Aggregate total of all objects under the study is called.....

**II Write Short notes on ANY TEN of the following**

**(10x3=30)**

- 1 Coefficient of variation.
- 2 Correlation.
- 3 State Addition theorem of probability.
- 4 Sampling.
- 5 Parameter and statistic.
- 6 Hypothesis.
- 7 Critical region.
- 8 Type II error.
- 9 Probability.
- 10 Give applications of Chi square test.
- 11 Arithmetic mean.
- 12 Degrees of freedom.

**III Answer ANY SIX of the following**

**(6x5=30)**

- 1 Write Short note on Graphical presentation of Statistical Data.
- 2 Give Steps involved in testing hypothesis.
- 3 Properties of Normal distribution.
- 4 Procedure for testing equality of two means by using t test.
- 5 Binomial Distribution.
- 6 Differentiate between Correlation and Regression.
- 7 Simple random sampling.
- 8 Measures of dispersion.

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

- 1 Measures of central tendency.
- 2 Define ANOVA. Give model and procedure for analysis of ONE way ANOVA.

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