KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. Degree Programme 2015 Admission II<sup>nd</sup> Semester Final Examination-July 2016

Cat. No: Stat 1201 Title: Basic Statistics (1+1)	Marks: 50.00 Time: 2 hrs
I Fill up the blanks/True or False	(10 x 1 =10)
<ol> <li>Coefficient of variation is a relative measure. (True/Fa</li> <li>Variance can be negative (True/False)</li> <li>Correlation coefficient lies between -1 and +1 (True/Fa</li> <li>The upper limit of probability is (Infired Structures)</li> <li>Mean is equal to mode in a Distribution</li> <li>Median divides the data arranged in ascending order in the structure of classes (k)</li> <li>Sum of absolute deviations is minimum when taken from the structure of the struc</li></ol>	alse) nity/Unity) on (Binomial/Poisson) ntoequal parts. is given by: k = om
II Write short notes ANY FIVE	(5 x 2 =10)
<ol> <li>Distinguish between parameter and statistic.</li> <li>Write short note on power of a test.</li> <li>Write four properties of normal distribution.</li> <li>Give the multiplication theorem of probability.</li> <li>Distinguish between primary data and secondary data.</li> <li>Write short note on coefficient of variation.</li> <li>Distinguish between population and sample</li> </ol>	
III. Explain ANY FIVE of the following	(5 x 4 =20)
<ol> <li>Explain the concept of skewness. Draw the sketch of show the positions of mean, median and mode.</li> <li>Define Karl Pearson's coefficient of correlation. En coefficient.</li> <li>Explain stratified random sampling.</li> <li>Distinguish between (1) Diagrams and graphs.</li> <li>Inclusive type and exclusive type classes. 3) Continuous</li> </ol>	umerate the properties of correlation
5. Describe the procedure for test of significance for a sin	gle mean for large samples.
6. Explain the procedure for determining median for a fre	equency distribution.
7. Explain paired t test.	
IV. Write essay on ANY ONE	(1 x 10=10)
1. What are the properties to be satisfied by a good me	easure of central tendency? Explain

used.

2. Write an essay on regression analysis. Give any five differences between correlation and regression analysis.

the different measures of central tendency and give the situations under which each can be