

## KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Ag. 2016 admission VI Semester Final Examination - July-2019

Marks: 50

Statistical methods and applications (2+1) tat.3202 Time: 2 hours (10x1=10)Fill in the blanks If p-value is 0.0025, then it is significant at..... level. 1 2 In 4 x 4 Latin Squared Design (LSD), the total degrees of freedom is ...... The sum of deviations of individual observations is zero from ...... 3 4 The probability of drawing any of these  $N^n$  samples is...... 5 Residual effect is also called as..... 6 F-distribution was discovered by..... 7 Standard Deviation of Binomial distribution is..... 8 If Mean=15 and Median=17 then Mode is ..... 9 The type of correlation between supply and demand is..... 10 The standard error of difference between the treatments is..... H Write short notes on ANY FIVE of the following (5x2=10)1 Type I and Type II Error. 2 Addition theorem and Multiplication theorem of probability. 3 Coefficient of Variation (CV). 4 Standard Error (SE). 5 Binomial distribution. 6 Sampling unit and sampling frame. Experimental unit. Answer ANY FIVE of the following (5x4=20)II Define Correlation. Explain types of correlation. 1 Explain test procedure of F-test. 2 Define Statistics. Explain importance of statistics in different sectors. 3 Define measure of central tendency. 4 Explain test procedure of paired t-test. 5 Explain assumptions of one way ANOVA. 6 Explain layout of Latin Square Design and its merits. 7 Write an essay on ANY ONE of the following (1x10=10)Explain layout and test procedure for Randomized Block Design (RBD). 1 What is Chi-square test? Write its uses in Agriculture and test procedure of Yate's 2 correction test.