



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food. Engg.) 2016 Admission
V Semester Final Examination-January 2019

Basc.3110

Statistics (1+1)

Marks: 50
Time: 2 hours

I Choose the correct answer

(10x1=10)

- 1 Which of the following is a measure of central value?
a Median b Mean c Mode d Quartile deviation
- 2 Type I error is also known as
a Level of significance b Power of the test c One tailed test d Two tailed test
- 3 Which measure of dispersion ensures lowest degree of reliability?
a Range b Mean deviation c Quartile deviation d Standard deviation
- 4 A family of parametric distribution in which mean is greater than variance is:
a Binomial b Gamma c Normal d Poisson
- 5 One way ANOVA is the example of
a RBD b CRD c LSD d FRBD

State True or False

- 6 If the observations are infinite we can go for Lottery method.
- 7 In F-statistic S_1^2 and S_2^2 are unbiased variances.
- 8 In normal distribution skewness is zero.
- 9 When the heterogeneous population is divided into homogeneous sub groups, such group is called strata.
- 10 As the sample size increases the sampling distribution of the sample mean approaches the Binomial distribution

II Write Short notes on any FIVE of the following

(5x2=10)

- 1 Parameter and Statistics
- 2 Characteristics of Normal Distribution. (any Three)
- 3 Type I and Type II error
- 4 Paired-t-test.
- 5 np chart.
- 6 χ^2 test.
- 7 One way ANOVA.- Definition and its model

III Answer any FIVE of the following.

(5x4=20)

- 1 Skewness and Kurtosis
- 2 Scatter diagram.
- 3 Probability and its laws.
- 4 Testing procedure of test for single mean.
- 5 Correlation analysis.
- 6 Normal distribution.
- 7 X-bar chat.

IV Answer any ONE of the following

(1x10=10)

- 1 Basic principles of experimental design.
- 2 CRD
