

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry Degree Programme 2015 Admission

II<sup>nd</sup> Semester Final Examination-August 2016

Cat. No: Bash 1206

Title: Elementary Statistics (2+1)

Marks: 50.00

Time: 2 hours

## I Answer all questions

(10 x 1 =10)

1. A study based on complete enumeration is known as.  
(a) Sample survey (b) Pilot survey (c) census survey (d) None of the above
2. Which one of the given measures of dispersion is considered best?  
(a) Standard deviation (b) mean deviation (c) range (d) all the above.
3. Scatter diagram of the variate values (X,Y) gives the idea about:  
(a) Functional relationship (b) regression model (c) errors (d) None of the above.
4. The product moment correlation was given by.  
(a) W.S. Gosset (b) Karl Pearson (c) Francis (d) None of the above
5. Normal distribution is also known as.  
a) Symmetrical (b) Asymmetrical (c) Skew Symmetrical (d) all the above
6. A split plot design can involve only  
a) two factors (b) three factors (c) five factors (d) one factor
7. When there are two sources of variation in the experimental material \_\_\_\_\_ design is adopted.
8. Probability of Type I error is known as \_\_\_\_\_
9. Purpose of local control is to reduce the experimental error. (True/False)
10. Two types of effects measured in factorial experiments are main and interaction effects. ( True/False).

## II Write short notes on ANY FIVE

(5 x 2 =10)

1. What is Yates correction for continuity.
2. Explain Randomization.
3. What is Coefficient of variation.
4. Write down the concepts of Spearman's rank correlation.
5. Write down the limitations of applying chi-square test.
6. Write down the properties of Normal distribution.
7. Write down the analysis of Randomized block design.

## III. Explain ANY FIVE of the following

(5 x 4 =20)

1. Explain the principle of experimental design.
2. What are the steps involved in testing of hypothesis.
3. What is the trip plot design, and write down the analysis.
4. What is correlation analysis and write down the testing procedure.
5. What is concept of ANOCOVA.
6. Explain in detail the concept of two way ANOVA.
7. Explain the concept of Probability sampling technique.

## IV. Write essay on ANY ONE

(1 x 10=10)

1. What is regression Analysis and write down the testing procedure for regression analysis.
2. Explain the concept on Data Transformation?

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