KERALA AGRICULTURAL UNIVERSITY

B.Sc. Hons (Ag) 2011 Admission
IInd Semester Final Examination, August 2012

Cat. No: Stat.1201   Marks: 80
Title: Basic Statistics (1+1)   Time: 3hours

I   State whether the following statements are TRUE or FALSE   (10x1=10)

1   The difference between the highest and lowest observations in a data set is called the inter quartile range

2   The range of regression coefficient is -1 to +1

3   For a symmetric distribution coefficient of skewness is zero

4   When two dice are rolled the probability of getting the sum of the faces as 11 is one out of eighteen

5   Level of significance is the probability of rejecting a true hypothesis

Match the following

6   Measure of dispersion   a   Students't

7   Statistic   b   Frequency distribution

8   Skewness   c   Coefficient of variation

9   Median   d   Positional average

10 Compressed data   e   Shape of distribution

                               f   Correlation coefficient

II   Write short notes /answers on any TEN   (10X3=30)

1   Differentiate between census and sampling

2   What do you mean by a measure of central tendency. Give examples

3   Enumerate the different steps involved in forming a frequency table

4   Describe the terms statistic and parameter in statistics

5   What do you mean by a simple random sample?

6   Write a short note on level of significance

7   Differentiate between skewness and kurtosis

8   Write down the multiplication theorem on probability

9   Explain the term purposive sampling

10 Enumerate the applications of F-test

11 What do you mean by a systematic sample

12 Bring out the significance of sampling distributions in analysing data

III   **Write short essays on ANY SIX of the following**   (6x5=30)

1   Explain the significance of correlation coefficient in determining the association between variables

2   What is a probability distribution? Explain . Give at least two examples

3   Give a brief account on cluster sampling. Illustrate a situation in agriculture where this method of sampling is used.

4   Enumerate the important characteristics of normal probability distribution.

5   Write a short essay on poison distribution

6   List out the important characteristics of a good measure of dispersion.

7   Briefly explain the uses and limitations of Statistics.

8   Describe the different types of graphs used in presenting statistical data.

IV   **Write essay on ANY ONE**   (1x10=10)

1   Explain the significance of analysis of variance in analysing experimental data. Describe the steps involved in analysing a two-way classified data.

2   Write a detailed essay on the steps involved in testing a hypothesis, explaining the terms used.

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