KERALA AGRICULTURAL UNIVERSITY
B. Sc. (Hons.) C & B 2018 Admission
II Semester Final Examination-August-2019

Agst.1202 **Statistical Methods (2+1)** **Marks: 50**
Time: 2 hours

I **Fill in the blanks** **(10x1=10)**

1 The point of intersection of the 'less than' and the 'greater than' ogive corresponds to .....
2 Algebraic sum of the deviations of a set of values from their arithmetic mean is.....
3 In symmetric distribution, the upper and lower quartiles are equidistant from .....
4 If a card is drawn from a pack of cards, the probability of getting either a king or queen is .....
5 The number of observation lying in any class interval is called ..... of that class.
6 Consistency of data can be measure with .....
7 The geometric mean of two regression coefficients is equal to .....
8 The probability density function of poisson distribution is .....
9 The relationship between grain yield and straw yield is an example of.....correlation.
10 Number of students in a class is an example of .....variable.

II **Write short notes on ANY FIVE of the following** **(5x2=10)**

1 Classification.
2 Describe a frequency polygon.
3 Limitations of statistics.
4 Coefficient of variation and its importance.
5 Multiplicative law of probability.
6 Properties of regression coefficients,(any four)
7 Properties of poisson distribution.

III **Answer ANY FIVE of the following** **(5x4=20)**

1 Write the procedure for construction of frequency distribution.
2 Distinguish between correlation and regression.
3 Write the merits and demerits of arithmetic mean.
4 How can one draw a Lorenz curve?
5 Define mutually exclusive and conditional events.
6 Define Rank correlation and write the formula.
7 Define binomial distribution and write its properties.

IV **Write an essay on ANY ONE of the following** **(1x10=10)**

1 Define normal distribution and explain symbols.Give the properties of normal distribution.
2 Define skewness and kurtosis with figures and explain different types of skewness and kurtosis.

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