Stat.1201

12 Rank Correlation

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Agriculture 2012 & Previous Admissions (Old Scheme) II Semester Re-Examination-July-2017

Basic Statistics (1+1)

Marks: 80 Time: 3 hours

		Time. 5 nours
I		Fill up the blanks/ State true or false, if false please correct it $(10x\overset{?}{1}=10)$
	1	Data originally collected by an investigator is called while, that obtained from a recorded source is called
	2 3	Intersection of Ogives enables to calculate an approximate value for In a frequency distribution, the class with the highest frequency is known as class
	4	Father of Modern Statistics is
	5	separates the acceptance region from the rejection region.
	6	The sum of squares of deviation from arithmetic mean is a maximum
	7	In a symmetric frequency distribution, mean < median < mode.
	8	The harmonic mean of n numbers is the reciprocal of the arithmetic mean of the reciprocals of the numbers
	9	A high value of Coefficient of variation implies high level of consistency
	10	When the population is homogeneous, we go for stratified sampling.
II		Write short notes on any TEN (10x3=30)
1.	1	Positive and inverse correlation
	2	Coefficient of variation and coefficient of determination
	3	Mutually exclusive and independent events
	4	Paired t-test
	5	Standard normal distribution
	6	Simple random sampling
	7	Merits and demerits of sampling over census
	8	Type I and Type II errors
	9	One tailed and two tailed tests
	10	Test of equality of variances
	11	Yates correction for continuity

III Answer any SIX

(6x5=50)

- Mention the different measures of central tendency, point out their merits and demerits
- 2 Illustrate Addition and Multiplication theorems in probability.
- Write down the probability functions of Binomial, Poison and Normal distributions, specifying the parameters.
- 4 Illustrate χ^2 test for testing the independence of attributes.
- Explain the method of testing hypothesis about the equality of means, under the assumption that variances are equal.
- 6 Illustrate Cluster Sampling
- 7 Discuss the steps involved in Testing of Hypothesis.
- Define dispersion. Explain important measures of dispersion with formulae.

IV Write essay on any ONE

(1x10=10)

- 1 Explain one- way analysis of variance.
- What do you mean by large sample test? Give the procedure for one sample and two sample Z tests.
