

KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Forestry 2016 Admission V Semester Final Examination-January 2019

Bass .3114

random sampling?

Statistical Methods and Experimental Designs (2+1)

Marks: 50

Time: 2 hours

I			(0x1=10)
ı	1	If x_1 and x_2 are two observations then geometric mean of these two will be	
		Midpoint of class interval is called	
	2	If all the observations are equal standard deviation =	
	3	If A and B are independent then $P(A/B) =$	
	4	The test used for testing two related means is	
	5	The test used for testing two relation significance of correlation coefficient is	
	6	Probability of an event ranges in between and	
	7	The design whose number of experimental units is a perfect square is	
	8	The design which makes use only two basic principles is	page districts
	9	The design which makes use only two basic principles is If the number of treatment is 't' and number of replication for each treatment is '	r' in
	10	If the number of treatment is a and number of representation for each administration	
		CRD then degrees of freedom for error is	
		Write Short notes on ANY FIVE of the following	(5x2=10)
II	1	Compatric mean and Harmonic mean	` ,
	1 2	Formula for Standard deviation and Coefficient of variation with explanation of	the
	2	1 ale year	
	3	Distinguish between symmetrical and asymmetrical factorial experiments	
	4	A ssumptions of ANOVA	
	5	Type I and Type II errors	
	6	Variable and Attributes	
	7	Parameter and Statistic	
		Answer ANY FIVE of the following	(5x4=20)
Ш	4	- 11 mandation of a good measure of cellular tellucity	
	1	A 11'- a theorem and Multiplicative theorems in probability	
	2	A 1 autography and disadvantages of factorial experiments	
	4	Eive Properties of correlation coefficient	
	5	Merits and demerits of census over sample survey	
	6	o 1 fraction	
	7	Write down the test statistic for the following situations, by setting up the hypot	hesis,
	•		
•		a. To test the equality of two means, when variances are equal, in small sample b. To test the equality of two proportion in the large sample case	, case
		b. To test the equality of two proportion in the range sample ease	(1x10=10)
IV		Answer ANY ONE of the following What is meant by Design of experiments and explain the basic principles of	(
	1		
	2	Experimentation. Give various reasons of using sampling. Distinguish between sampling with repart and sampling without replacement. Discuss various methods of selection of same simple random sampling. How simple random sampling is different from stratif	IDIC III