Rawalpindi Women University

Department of Statistics Sample Paper for M.Phil. Statistics Admission

Note: Please attempt all questions.

(i)	If population is per	rfectly home	ogenous, then w	what size of sample	le would you prefer?
	(a) A large Sample	e (b) A sm	all sample	(c) A single unit	(d) None of the above
(ii)	If units are selecte	ed in a samp	le from N popu	lation units, the s	ampling fraction is:
	(a) $(1/n)$ (b)) (1/ <i>N</i>)	(c) (N / n)	(d) (N / n)	
(iii	i) A test which max	ximized the	power of the te	est for fixed $lpha$ is k	known as:
	(a) Optimum test	(b) Rand	lomized test	(c) Bayes test	(d) Likelihood ratio test
(iv)) In a Multinomial	distribution	with 4 classes,	the degrees of fro	eedom for Chi-Square is:
	(a) 3 (b) 4	(c) 2	2 (d) 1		
(v)	Significance of partial regression coefficients can simultaneously be tested by:				
	(a) T-test	(b) Z-to	est (c) C	hi-Square test	(d) F-test
(vi)	Which of the following relation is correct:				
	(a) $r_{12.34} = r_{13.24}$	(b) $r_{12.3} =$	$r_{21.3}$ (c) r_{13}	$=r_{23}$ (d) r_{123}	$_{3}=r_{13.2}$
(vii	i) The simplest con	npletely ran	domized group	s design is a:	
	(a) Single group	design	(b) Single va	riable design	
	(c) Two group de	esign	(d) Two vari	ables design	
(vii	ii) The analysis of	variance pro	ocedure compar	res:	
	(a) Several diffe	rent sample	means	(b) Two differ	ent estimate of variance
	(c) Several diffe	rent popula	tion variances	(d) Several dif	fferent populations variances
(ix)) A variable equals	s the sum of	squared of ind	ependent standard	d normal variates is called:
	(a) Binomial var	iate (b) S	Standard variat	e (c) Chi-square	ed variate (d) None
(x)	On a single draw f		of playing card	ls, the probability	of selecting a heart card and a
	(a) 1/2	(b) 1/4	(c) Zero	(d) 1/8	