m.sc. statistics MASS 日

SEMESTER-III EXAMINATION NOV- 2014

MARKS: 70 PAPER: 11 - THEORY OF SAMPLING AND SOFTWARE TOOLS Code. 3576 **DURATION: 2.5 HOURS**

Explain est	Descr estima SRSW		∞									Q-1 (A)
Explain estimation of Sampling Variance. (7)	Describe two stage sampling with illustration. Obtain unbiased estimator of population total with SRSWOR at first stage and SRSWR at second stage.	OR	State advantages and disadvantages of two stage sampling. (7)	Explain Regression Method of Estimation (7)	Discuss drawbacks of the methods if any. (7)	Discuss Lahiri's method of selection to obtain PPSWR sample.	Scheme.	Explain the theory of estimator under Yates and Grundy	OR	is unbiased and obtain its variance. (7)	State II Sampling with and Without "replacement. (7)	Explain PPS sampling "with" and "with".

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ı obtain it	What is the importance of descriptive statistics? How do you obtain it	Q-5 (B)
T. (7)	Discuss applications of logistic regression model in SYSTAT. (7)	Q-5 (A)
·	OR	
Э	Discuss hierarchical clustering in SYSTAT.	Q-5 (B)
Э	SYSTAT.	
hod in	Explain analysis of linear regression model by Bayesian method in	Q-5 (A)
7	Discuss binary logit model in SYSTAT.	Q-4 (B)
9	Discuss various types of graphs used in SYSTAT.	Q-4 (A)
	OR	
(7)	Discuss k-means cluster analysis in SYSTAT.	Q-4 (B)
(7)	SYSTAT.	
	Discuss linear regression model in	Q-4 (A)
9	Explain MSE of Ratio Estimator.	Q-3 (B)
(7)	Explain "Bias" of Ratio Estimator.	Q-3 (A)
	OR	
9	Explain Almost Unbiased Ratio Type Estimator.	Q-3 (B)
uin an (7)	What are the situations in which ratio estimate is used? Obtain an unbiased ratio type estimator for the population mean.	Q-3 (A)