Stı	tudent ID Name	Name				
1.	Sampling frame is defined as	(2)				
2.	In SRSWR $E(s^2) =$ and in SRSWOR $E(s^2) =$	(1)				
3.	Give a real life example (that is not discussed in the class) of Auxiliary Variable.	(2)				
4.	For an estimator $\hat{\theta}$, $MSE(\hat{\theta}) = Var(\hat{\theta}) - [Bias(\hat{\theta})]^2$. True / False	(1)				

Student ID	Name
Q.No.5:- (a) In case of SRSWR, derive the bias and Mean Squarestimator $\bar{y}_{reg} = \bar{y} + \frac{s_{xy}}{s_x^2} (\bar{X} - \bar{x})$ for estimating the property of th	, , , ,
(b) A medical student was given an assignment to eteachers between 30 and 60 years of age in a certain up 12 teachers was drawn from the frame consisting of the auxiliary variable. Average age for the population records as 42.7 years. Using regression estimator, esup confidence interval for it.	university. A WOR simple random sample of 961 teachers. Age of teachers was taken as on of teachers was calculated from university

Teacher	BP (Y)	Age (X)	Teacher	BP (Y)	Age (X)	Teacher	BP (Y)	Age (X)
1	130	38	5	130	58	9	146	55
2	128	41	6	124	36	10	144	49
3	147	55	7	150	57	11	126	35
4	130	37	8	125	31	12	124	32



