Homework 5

Problem 1

q. Cluster sampling as the population has been divided into clusters which is 40 blocks. A common sampling bias here could be no response bias as it is possible that some residutes are not in the house holds

bi) Stratified sampling -> The entire population i.e the entire compiled is stratified into 25 one Acre plats & then a random sample is picked from each. Lack of control could be a source of sampling bias here

c.) Systematic sampling as there is a system of intervals being involved in this technique. And No response bias could be a potential bias in this study

d.) Convenience Sampling -7 where the friend group is a sample youn the entire population and each member of the sample has on equal Chance of being selected the stoolast specifically chose their founds honce there is a lack of Frenchomization. No response has is also possible

C.7 Simple random Semping-. Ten scats are randomly chosen and cicry member from the sample is selected

## Problem 2:

a) No because a sample of 500 students is not a big enough sample especially ly It is a by university. Simple Bandom

Sample potentially could be a valid technique by the sample Chose is slightly biggin

b) Viggerent field of study could be of chifferent sizes and Dil does not provide for opportunity for wyone to be selected. May be assess the chifferent sizes of the elifferent fields and then assess of ciffment proportions for each field of study to be surveyed to Minimize the bias

c.) In my opinion this is a better approach because ages in university do not vary by alot in universities and also there is a foir amount of randomization when it comes to what clusters should be selected.

## Problem 3

Class	Midpoint	Frequency	Rel. Freq	Cumu-free
0-90	45	19	0.38	19
90-180	135	18	0'3	34
180-270	225	8	0.16	42
270-360	235	5	0.10	47
368-450	3 3 5	3	0.06	50