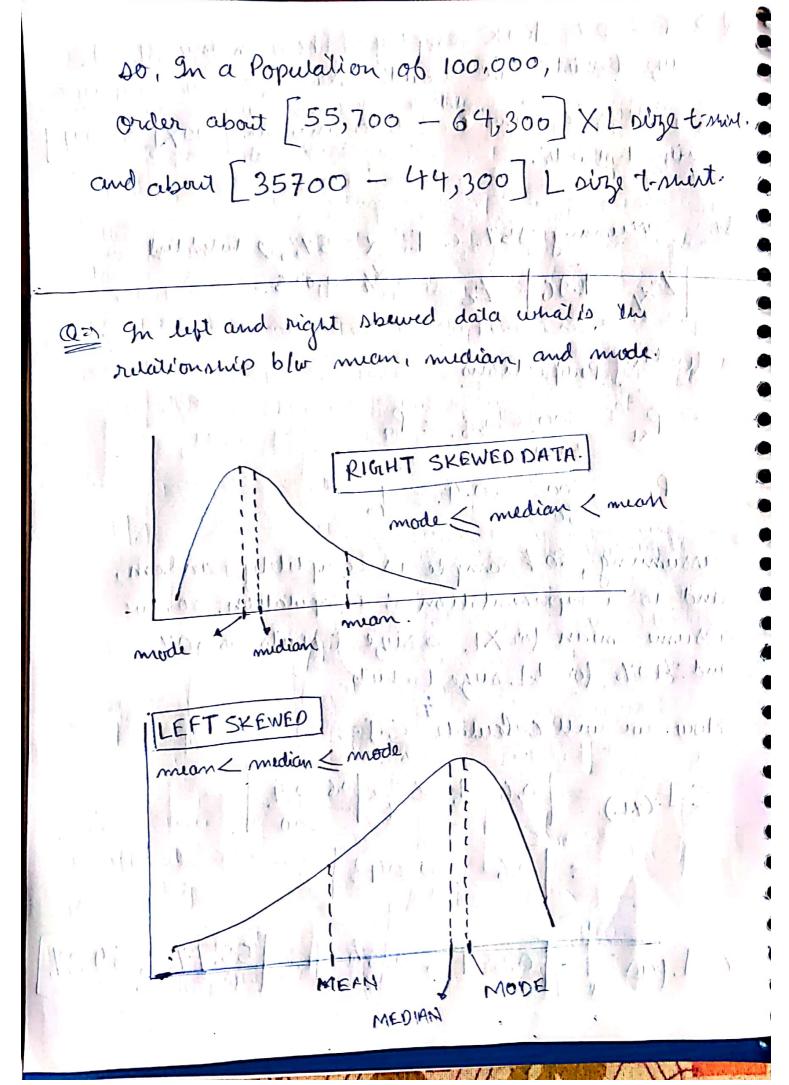
Q=) FOR our 100K employees how many XL4L size t-shirts: we should order for our employees. 9) given à sempléres 500 in which [300×14200] size t-shirts. Ass. asserning 95% C.I, &= 5%, 2-tailed just, Zx= 1.96 = Ze. 22-0.025. finding proportions PXL = 300 = 0.6, = Po PL = 200 = 0.4. = 9. assuming, & # sample is complilely random, and is a representation of a population. Do, we addume mean for XL as dize t-shirts as 60%, and 40% for & Louge to shirts. Now we will calculate C.I., MANNEY THE CI(XL) = [0.6 + Zx2x ] 0.6x0.4 500]. = [0.6 ± 0.043] CI(XL) = [0.557, 0.643] = [55.7%, 64.3%]



- A batto manager car company believes that the %. ob residents in city ABC. that owns a vehicle is 60% or less. A balls manager disagress with this. He conducts a Hypothesis testing, surveying 250 residents and found that 170 responded yes to owning, a vehicle.
  - (a) state the mill and atternate hypothests.
- (b) at 10% significance level, is there onough. evidence to support the idea, that vehicle ownership in city ABC is 60% or less.

(9)  $H_0 \Rightarrow P_0 \leq 60^{\circ}P_0$   $P_0 = 60^{\circ}P_0$   $P_0 = 60^{\circ}P_0$   $P_0 = 60^{\circ}P_0$   $P_0 = 130$   $P_0 = 140^{\circ}P_0$   $P_0 = 130$ 

